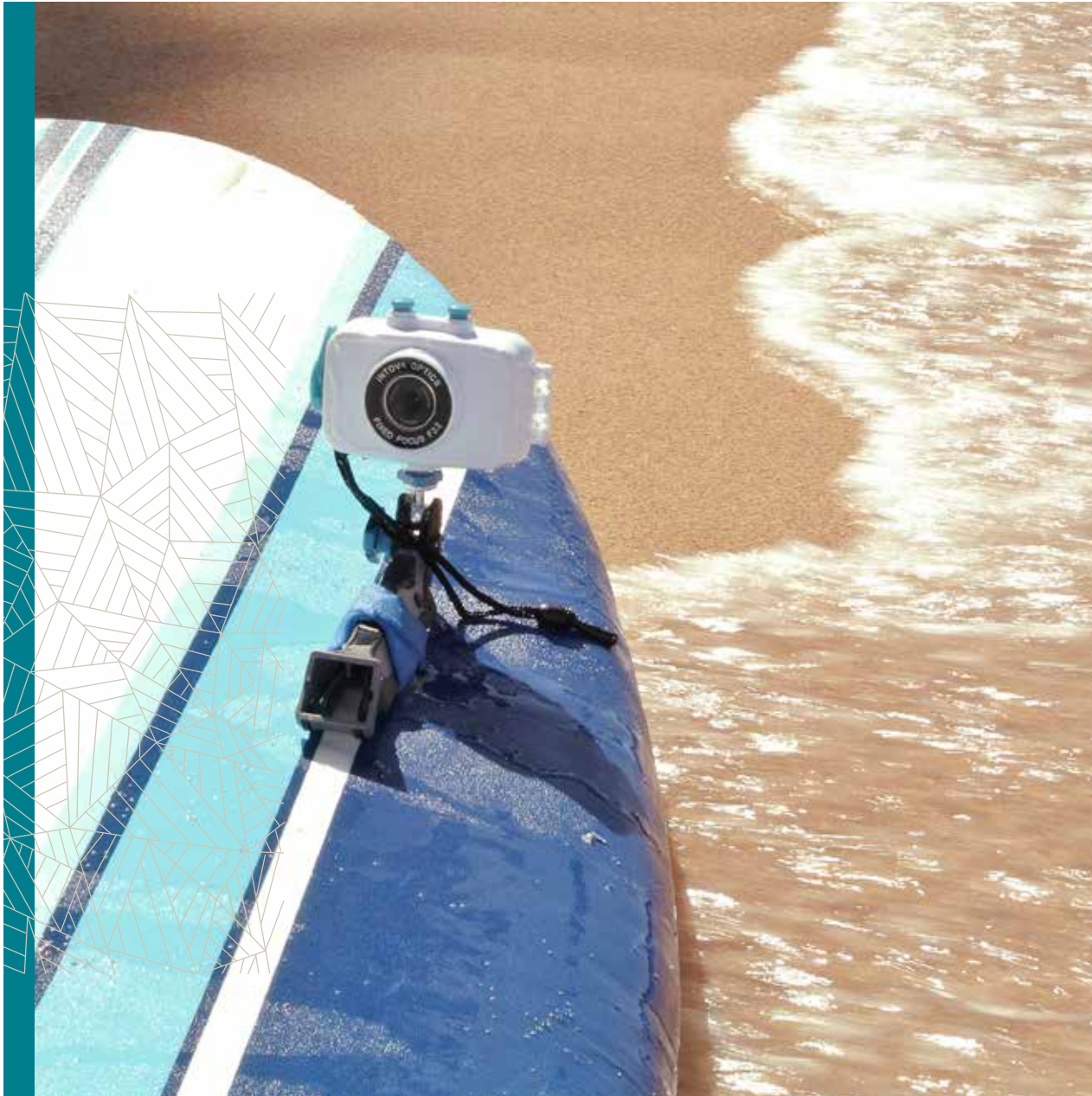# DUO *INSTRUCTIONS*

Thank you for purchasing an Intova Duo. Your Duo is a tough and robust Sports Camera with a wide range of features. Please read this manual carefully for usage instructions and care tips.

Enjoy!

INTOVA

TABLE OF CONTENTS

A. Power Button
» Power the camera on/off.
» Scroll to the right (select menus and adjust EV).

B. Shutter Button
» Video mode: start/stop recording.
» Photo mode: shutter button.
» Playback mode: start video.
» Setup Mode: confirmation.
» Exit menu.

C. Indicator Lights
» **Red LED** is a charging indicator: ON while charging and OFF when charge is complete.
» **Green LED** is an operation indicator: ON during image capture and when connected with computer portable disk.

D. Mode Switch
 Switch between photo, video, and playback.

E/G. Up/Down Buttons
» Scroll up/down.
» Video/photo mode: Adjust digital zoom.
» Playback mode: pause.

F. OK Button
» Select.
» Replay Mode: Stop slideshow.

H. Housing Power Button Control
I. Housing Shutter Button Control
J. Mini USB Port
K. Mic
L. Micro SD Card Slot
M. Lens

Precautions
» Before using the camera, read the precautions to ensure correct use, the best performance and longer lifespan.
» Do not leave or store the camera in direct sunlight, especially the lens, as prolonged exposure to direct sunlight can damage the image sensor.
» Store in a cool, dry environment.
» During storage, note that battery must be recharged periodically to maintain operating ability. Allowing total discharge may ruin the battery.
» Clean with a soft dry cloth and take special care around lens.
» Format Memory Card prior to first use.
» Do not use a memory card that contains files from a different device as this may cause camera to malfunction.

DUO
QUICK START GUIDE

1.REMOVE FROM HOUSING

2.CHARGE

3. INSERT MICRO SD CARD

4. POWER ON

5. CHOOSE MODE (DEFAULT IS PHOTO)

6. PRESS SHUTTER TO SHOOT/RECORD

HOUSING REMOVE/REPLACE

Unlock Housing: Rotate housing lock switch clockwise to unlock.

Lock Housing: Rotate housing lock switch counter-clockwise to unlock.

POWER ON/OFF

Power-on: press and hold POWER key for 3 seconds, the screen starts up and the camera enters startup mode.

Power-off: click POWER key, the camera turns off.

Note: Automatic power-off will occur if no usage for 5 minutes. In case of extremely low battery, an icon of will appear on the LCD screen indicating urgent charging need. When the icon turns red and flashes, the camera will automatically power off.

CHARGE

Prior to charging, remove the camera from its housing.

Charge the battery by connecting the camera to a computer or other USB charging adapter using the included USB cable. The camera charging indicator light turns on during charging and turns off when charging is complete.
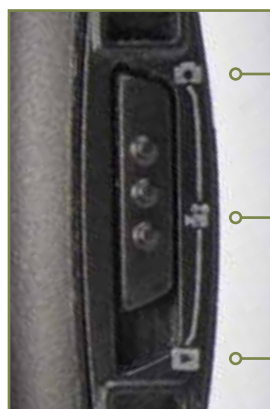
When charging with a computer, be sure that the computer is connected to a power source. If the camera status light does not turn on, use a different USB port.

The camera does not come fully charged. No damage occurs to the camera or battery if used without a full charge.

For more battery information, see Battery.

CHOOSE MODE

The camera is equipped with three modes: photo, video and playback. The default mode is photo.

PHOTO

VIDEO

PLAYBACK

MICRO SD CARD USE

The DUO camera is compatible with micro SD memory cards with a capacity up to 32GB (sold separately). Intova recommends using our Intova memory cards for maximum reliability.

Insert the micro SD Card: Slide the memory card into the card slot with the label facing the back of the camera. When fully inserted, the card clicks into place. Note: The card must be formatted prior to use.

To Remove the micro SD Card: Place your fingernail against the edge of the memory card and lightly press it further into the camera. The card springs out far enough to be removed.

NOTICE: The camera is not equipped with built-in memory, a memory card is required. Use care when handling memory cards. Avoid liquids, dust and debris. As a precaution, power off the camera before inserting or removing the card. Check manufacturer guidelines regarding use in acceptable temperature ranges.

ALERTS & IMPORTANT MESSAGES

Missing SD card Notification:

Notification that there is no SD card in the camera. A Micro SD camera is required to capture photos/videos and to playback images. Insert Micro SD card and this notification will vanish.

Operation indicator: light illuminates when the camera is capturing imagery or connected to a computer.

Charger indicator: light illuminates when the camera is charging.

CHOOSE MODE (DEFAULT IS PHOTO)

USE UP/DOWN BUTTONS TO SELECT

PRESS OK BUTTON TO ENTER SUB MENU

SELECT DESIRED SETTING IN SUB MENU

NAVIGATING MENUS TO ADJUST SETTINGS

Each camera mode has its own settings menu.

To navigate the settings for a given mode:

1. Verify that the camera is in the desired camera mode.

2. Press the **OK** button to open the settings menu for the selected mode.

3. Use the **up/down** buttons to cycle through the settings. (Continue to press the up/down buttons for additional settings)

4. Press the **OK** button to enter sub menu.

5. Use the **up/down** buttons to cycle through the setting options. (Continue to press the up/down buttons for additional options)

6. Press the **OK** button to select the desired setting in the sub menu.

Press the **shutter button** to go back/exit.

To navigate the general settings for the camera:

1. Press the **OK** button to open the settings menu for the selected mode.

2. Press the **power button** to select the general settings menu or press it again to return to the mode menu.

PHOTO STATUS SCREEN

Your DUO camera displays the following information about modes and settings:

PHOTO MODE ICONS & SETTINGS

A	**Photo**	Photo mode
B	**White Balance**	Auto Daylight Cloudy Fluorescent Tungsten
C	**Metering**	Center Multi Spot
D	**Exposure Value**	-2.0 to +2.0 +0.0 is the default
E	**Resolution**	5M: 2592x1944 3M: 2048x1536 2M: 1280x960
F	**Quality**	Super Fine Fine Normal
G	**Image Count**	Remaining quantity of images at quality setting.
H	**Loaded Micro SD**	Loaded card
I	**Battery Status**	Charge level
	Self-Timer	2 Seconds 10 Seconds
	Effect (filter)	Nor Normal BW Black & White Sep Sepia Neg Negative Red Red Gre Green Blu Blue
	Date Stamp	Off Date Date & Time

VIDEO STATUS SCREEN

Your DUO camera displays the following information about modes and settings:

VIDEO MODE ICONS & SETTINGS

A	**Video**		Video mode
B	**White Balance**		Auto
			Daylight
			Cloudy
			Fluorescent
			Tungsten
C	**Metering**		Center
			Multi
			Spot
E	**Movie Size**	HD	1280x720
	(Resolution)	VGA	640x480
	Rec Interval		Off
			1 Min
			3 Min
			5 Min
	Effect (filter)	Nor	Normal
		BW	Black & White
		Sep	Sepia
		Neg	Negative
		Red	Red
		Gre	Green
		Blu	Blue
	Date Stamp		Off
			Date
			Date & Time

RECORDING INTERVAL (REC INTERVAL)

The recording interval enables the camera to automatically stop recording video after 1 min, 3 min, or 5 min and immediately start recording the next section of the video (e.g. when 5 min is selected in the menu, the camera will automatically stop after it has recorded 5 min and start recording the next section of video). When the memory card is full, the earliest recoded section of file will be recorded over.

PLAYBACK STATUS SCREEN

Your DUO camera displays the following information about modes and settings:

PLAYBACK MODE ICONS & SETTINGS

A	**Playback**	Playback mode
B	**Files**	Quantity of files in current folder.
C	**Video File**	Video File
	Locked	Lock/Unlock Lock All Unlock All
	Delete	Delete File Delete All Files
	Slide Show	Play Interval 1-10 sec. Repeat

TO PLAY MOVIE CLIPS:

1. Select playback mode.

2. Press **shutter** button to play

Pause: Press **up** button.

Stop: Press **shutter** button.

TRANSFERRING FILES TO A COMPUTER

The DUO camera is plug and play.

1. Make sure camera is powered on.

2. Connect device to computer with USB cable.

NOTE: You can also transfer files to a computer using a **card reader** (sold separately). Connect the card reader to your computer and insert the micro SD card into the reader. You can then transfer files to your computer or delete selected files on your card.

BATTERY

Maximizing Battery Life:
The battery icon has a line across it when the battery is very low. If the battery reaches 0% while recording, the camera saves the file and powers off. Extreme cold temperatures can decrease battery life. To maximize battery life in cold conditions, keep the camera in a warm place prior to use. Shooting at higher frame rates and resolutions increases power consumption.

The battery charges to 100% in approximately 6 hours when using a USB-compatible Wall or Auto Charger.

Battery Storage & Handling:
The camera contains sensitive components, including the battery. Avoid exposing your camera and battery to very cold or very hot temperatures. Low or high temperature conditions may temporarily shorten the battery life or cause the camera to temporarily stop working properly. Avoid dramatic changes in temperature or humidity when using the camera, as condensation may form on or within the camera.

The camera housing protects the camera from water damage. For more information, see Camera Housing. Do not turn on your camera if it is wet. If your camera is already on, turn it off. Allow the camera to dry thoroughly before using it again. Do not dry the camera with an external heat source such as a microwave oven or hair dryer. Damage to the camera caused by contact with liquid is not covered under the warranty.

Battery Disposal:
Most rechargeable lithium-ion batteries are classified as non-hazardous waste and are safe for disposal in the normal municipal waste stream. Many localities have laws in place requiring battery recycling. Check your local laws to make sure that you can dispose of rechargeable batteries in your regular trash. To safely dispose of lithium-ion batteries, protect terminals from exposure to other metal with packing, masking or electrical tape so they do not cause a fire while being transported. Lithium-ion batteries, however, do contain recyclable materials and are accepted for recycling by the Rechargeable Battery Recycling

Corporation's (RBRC) Battery Recycling Program. We encourage you to visit Call2Recycle at call2recycle. org or call 1-800-BATTERY in North America to find a convenient recycling location. Never dispose of a battery in a fire because it may explode.

WARNING: Do not drop, disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate or paint the camera. Do not insert foreign objects into the battery opening on the camera. Do not use the camera or the battery if it has been damaged—for example, if cracked, punctured or harmed by water. Disassembling or puncturing the battery can cause an explosion or fire.

HOUSING MAINTENENCE

Rinse housing in cool clean water after use.

Inspect O-ring carefully prior to each use: any debris on O-ring can cause leakage.

Store in a cool dry area with housing door slightly open to prevent O-ring deforming.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera will not turn on	Battery not charged	Use supplied USB cable and connect to powered-on computer to charge.
Camera freezes, does not operate correctly or shows "card error" message on LCD.	MicroSD card is improper size or has files on it recorded on another device.	Use microSD card maximum size 32GB (class 10 recommended). Format card if it has files on it from another device.
Photos are blurry	Moving or shaking camera when taking photo.	Hold camera as steady as possible when taking a photo or use a tripod.
Video are shaky or shows motion blur.	Moving camera in with shaking motion or panning too fast.	Move camera in even slow movements when taking videos.
Camera is not recognized by computer when plugged in via USB cable.	Connection failure or defective USB cable.	Check to make sure connections are secure, restart computer or try another USB cable.
Camera turns off by itself after a few minutes.	Power save is set to 1, 3 or 5 minutes or battery charge level is low.	Turn off power save function in camera's menu or make sure battery has sufficient charge.

SUPPORT

www.intova.com
info@intova.net
1 (808) 837-0074

INTOVA IS PART OF A FAMILY OF BRANDS:

Industrial Revolution, Inc.
5835 Segale Park Dr. C.
Tukwila, WA 98188
www.industrialrev.com