



USER MANUAL

TOUGHPIX EXTREME INTRINSICALLY SAFE DIGITAL IMAGING CAMERA



RUGGED AUTHORITY

www.cord-ex.com

Congratulations - You are the owner of a TOUGHPIX EXTREME CAMERA. A compact pocket sized digital imaging camera capable of capturing true 5 megapixel visual images.

Intrinsically safe version as follows:

• Ex II 2G / Ex ib op is IIC T4 Gb Ta = -10° C to $+40^{\circ}$ C

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Please ensure that the certification matches or exceeds the hazardous area characteristics that will be clearly displayed on site.



Whilst in a hazardous area, do not attempt to change batteries. This task should only be undertaken after returning to a safe area.

OVERVIEW

Professional features in a pocket sized package. The TOUGHPIX EXTREME is a ruggedized, compact, high resolution digital imaging camera capable of capturing true 5 megapixel visual images.



PACKAGE CONTENTS

Check the contents of your TOUGHPIX EXTREME, it should include the following items:

- TOUGHPIX EXTREME
- Mains charger
- Battery charging dock
- User manual
- Access key
- CorDEX memory card
- USB card reader
- Wrist strap
- Global adapters
- Lithium-ion battery



REGISTER YOUR CORDEX PRODUCTS

Visit **www.cord-ex.com** to register and receive a 12 month extended warranty.

To register your CorDEX product, click 'My Account' on the CorDEX homepage, login to your existing account or register, then enter your CorDEX product serial number and your product will appear with your extended warranty. Terms and conditions apply.

GETTING TO KNOW YOUR TOUGHPIX EXTREME



1 LED flash

With two modes of operation; Wide Area Burst mode and Close-up mode, you have the ability to control the flash to suit your requirements, helping prevent image washout.

2 5MP sensor

Motorised auto focus, capable of resolving both fine close up detail and wide area shots without the need for macro-modes or additional lenses.



No more messy cables, with the TOUGHPIX EXTREME, wirelessly transfer both infrared and visual images efficiently, even in th hazardous area.

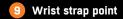


5 Removable rechargeable battery

Rechargeable lithium ion battery pack providing a huge four hours runtime plus the ability to switch packs and keep working if you need to (only in a safe area).

7 2.8" LCD backlit display

Compact enough to fit into any work pocket but rugged enough to take the hits, the TOUGHPIX EXTREME still has a screen big enough to view images taken in real time; day or night.



Not only is the TOUHGPIX EXTREME small and compact we have made it really easy to carry with our CorDEX wrist strap, which can be worn on either the right or left hand side of the camera.

6 Ruggedized aluminium body

Manufactured from lightweight aircraft grade aluminium, the TOUGHPIX EXTREME is both rugged and tough with one goal in mind, quality that's built to last.

8 Simple joystick navigation

With its simple joystick navigation, the menus are quick and easy to navigate, saving time on the task in hand.

GETTING STARTED

Battery Pack

Please ensure the battery pack is fully charged where possible for optimum results and maximum runtime. The battery pack is removed* and inserted* via the access door on the base of the camera. The battery pack is charged using the docking station supplied. Refer to the section on battery pack operation for details. *Only to be done in a safe area

Turning the Power ON/OFF

Use the power button on the top of the camera to turn the camera on and off. The on button is identified on the top of the camera with the ON/OFF symbol located next to the shoot button.

Please refer to Time and Date section if setup is required before operation.

Camera Interface Menus

All camera settings and features are navigated and selected using the joystick:

Short press enters the camera menu Long press enters the analysis menu

CAMERA MENU

This menu has the following icons:





Time and Date

Image Review



ANALYSIS MENU

This menu has the following icons:

SPOT & BOX Configuration

TAKING PICTURES

Visible Imaging

Controls the VISIBLE imaging and capture modes.

- LED: flash operation options. DISABLED: LED flash turned OFF. ENABLED: LED flash turned ON. AUTO: LED flash enabled dependent on ambient light.
- I FLASH CHARGE STATUS: the top right of the display shows: GREEN indicates fully charged. RED indicates charging in progress.
- SCENE: Sets the auto-modes for a particular situation: NORMAL: Default exposure using all the image area. CLOSE-UP: Auto-exposure is determined by the central region of the image with the edge regions used less. In close-up mode a rectangle is overlaid to show the central area from which exposure is determined. Note that the object being imaged doesn't have to be contained within this area even though the image exposure is determined by metering this area.
- TIME LAPSE: Sets time period for delay from shoot-button activation. TIME LAPSE PERIOD: single, 30 sec, 1 min, 2 min, 5 min. ACTIVATION: Started and stopped by the shoot-button. INDICATOR (top left): Shows current setting (in seconds). When running shows the time to next image.
- TL THRESHOLD: Sets the temperature threshold for the time lapse to start. TEMPERATURE: Sets the threshold temperature (-10°C disables). ACTIVATION: Started and stopped by the shoot-button.
- BRIGHTNESS: Adjusts the visible image brightness. BRIGHTNESS: -4, -3, -2, -1, 0 (default), 1, 2, 3, 4. Normal operation 0.
- CONTRAST: Adjusts the visible image contrast. CONTRAST: -4, -3, -2, -1, 0 (default), 1, 2, 3, 4. Normal operation 0.

TAKING PICTURES

• SATURATION: Adjusts the visible image saturation. SATURATION: -4, -3, -2, -1, 0 (default), 1, 2, 3, 4. Normal operation 0.

To focus an image, point the camera at the target of interest and the camera will automatically focus. Once the camera is focused and the image is clear, press the shoot button whilst the camera takes the shot.

IMAGE REVIEW

Image Review

Displays the stored CAPTURED for review.

· View mode review shows the actual CAPTURED image with overlay

The memory card empty icon is displayed when no memory card is present. Image identification is shown for the minimised views. Removed on th full screen views

The joystick is used to navigate the stored images.

- RIGHT and LEFT: moves through the stored images as CAPTURED.
- · UP and DOWN: selects either CAPTURED or VISIBLE.
- PRESS (short): selects full screen display of the currently displayed image. UP and DOWN: selects CAPTURED or VISIBLE
- PRESS (long): enters the Delete Image menu.
 CANCEL: re-enter the Image Review.
 DELETE deletes the image from the memory card.

🛜 WIFI

WIFI access point activation.

- ENABLE WIFI: select NOW to enable, PRESS (short) to exit WIFI access point. When WIFI access point is enabled the display shows the following:
- CAMERA SSID IS DISPLAYED: used to identify the camera for selecting WIFI connection.
- · CAMERA IP ADDRESS: used by browser to display web-page.
- FW: WIFI firmware revision

WIFI image review and download can be performed in Zone 1 and Zone 2 areas with certified equipment. Refer to the section on the Web browser for image revie using a browser.

CAMERA SETUP

Time and Date

Used to setup the cameras date and time.

- · YEAR: select current year.
- MONTH: select current month.
- DAY: select current day.
- HOUR: select current hour.
- MINUTE: select current minute.
- SECOND: select current second.
- TIME ZONE: select current time zone offset (hours).

Firmware and Alignment

Both WIFI and camera system firmware are uploaded form this menu Displays the current FIRMWARE for the camera. See WIFI for the module firmware

Displays the camera serial number: 8-digit Hexa-decimal number.

- UPDATE FIRMWARECamera system firmware update
 Press NOW to update firmware
- UPDATE WIFt WIFt firmware update
 Press NOW to update firmware
- ALIGN: VISIBLE image alignment.
 Arrows are used to align the VISIBLE images.

Separate instructions for firmware updates will be issued along with the firmwar update file

CAMERA STATUS

Battery Status

Shows current battery charge status as a percentage.

A Calibration Nofication:

Lower right of screen when activated to indicate calibration is due.

Memory Card Empty:

Top left of screen when activated indicates no memory card is present.

IMAGE EXAMPLE

The following is an example of a CAPTURED image with its VISIBLE views



DOWNLOADING FILES

Images can be downloaded from the TOUGHPIX EXTREME via the removable memory card or via the WIFI access point.

Removable Memory Card

TOUGHPIX EXTREME is supplied complete with a memory card**.

- · Open* the Battery Pack door of the camera with the supplied access key.
- · Remove* the Battery Pack from the camera.
- · Remove* the memory card from the camera.
- · Insert* the memory card in to the memory card reader supplied.
- Remove the other end of the memory card reader which will reveal a USB dongle, insert this in to your PC/Laptop.

* Only to be done in a safe area.

** Only compatible with the TOUGHPIX EXTREME.

WIFI Access Download

TOUGHPIX EXTREME comes complete with built in WIFI to enable users to wirelessly view and download images directly from the camera.

To access images over the WIFI:

- · Activate the EXTREME WIFI access point (refer to the WIFI icon description).
- Access and view files via EXTREME web browser operation or CorDEX EXTREME application*.

Refer to the section on web browser operation.

* Refer to CorDEX for current camera application support details.

WEB BROWSER OPERATION

The integrated EXTREME web browser enables display and download of on-camera images in the original view-mode via the EXTREME's WIFI access point.

Basic Operation

The web browser displays thumbnail images for quick transfer with download access to the full resolution images. Once downloaded, images can be viewed and processed in CONNECT Software to adjust the view mode.

• WIFI: Web server enables fast application and browser access to display images.



 Direct linked full resolution downloads available as shown in the example.
 RIGHT CLICK: the link to download the VISIBLE.

LEFT CLICK: to open full resolution image.

BATTERY PACK

Removing the Battery Pack*

- Open* the Battery Pack door of the camera with the supplied access key.
- Remove* the Battery Pack from the camera.

Inserting the Battery Pack*

- Open* the Battery Pack door of the camera with the supplied access key.
- · Slide* the Battery Pack into the camera.
- · Secure the Battery Pack in place using the supplied access key.
- · Ensure the access door is securely closed before entering any restricted areas.

Charging the Battery Pack*

- Plug the charger into a wall socket/outlet. The GREEN LED will illuminate showing mains power is connected and that the charger is ready.
- Insert EXTREME Battery Pack into the charging station. Care must be taken to
 ensure that the battery is inserted in the correct orientation, otherwise battery or
 charger damage may occur.
- If the battery is properly located in the charging station, the RED LED on the charger will illuminate to indicate charging. Once the charge cycle is complete, the LED will change to GREEN.
- * Only to be done in a safe area.

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