



ONIX PRO



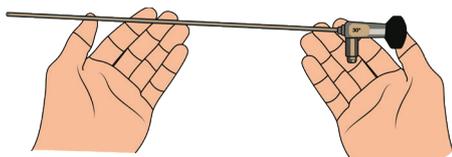
User Manual

Improving Simulation Training Globally

Assembly Instructions

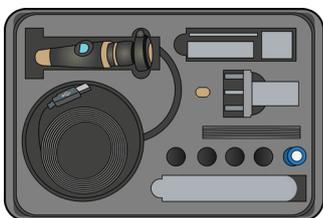
The HD Camera, 10W Lightsource and Optical Coupler all come in an IP67 rated black hard case for secure transportation and protection.

All Optical Lens options come in a stylising and protective white box including silicone end caps.



Step 1

Remove ONIIX PRO Optical Lens from box.



Step 2

Remove ONIIX PRO Camera and Lightsource.



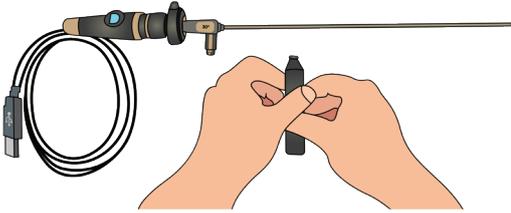
Step 3

Place on clear surface ready to assemble.



Step 4

Attach Optical Lens to Camera via the C-Mount locking system.



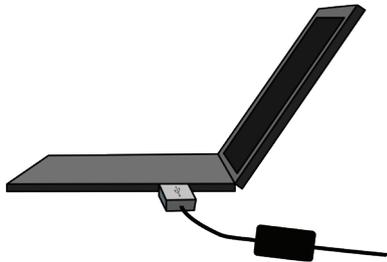
Step 5

Attach ONIIX PRO Lightsource to Optical Lens.



Step 6

Place spare batteries on charge via rechargeable battery charger.



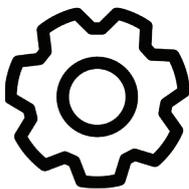
Step 7

Plug Camera USB 3.0 into Operating System Camera App on laptop or PC.



Step 8

Light source has 3 driver (Brightness) options. Press once 10W Light / Press twice for 8W Light / Press three time for 5W Light.



Step 9

Open ONIIX PRO App and ONIIX PRO Button on USB drive.



Step 10

Operating System Camera App / Flip Camera to external / Open setting in top left corner / Photo setting; 3.5MP 16:9 (2562x 1440) / Video setting 1080p 16:9 30fps.



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Product Specifications

Product Features

ONIIX PRO is connected to a computer or laptop via USB for master-slave half-duplex serial communication, which is suitable for surgical simulation training.

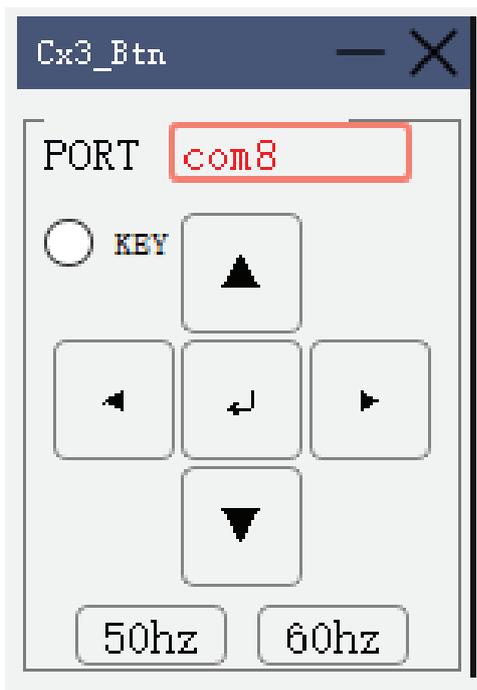


- 1/2.8" 2MP 1080P 50/60FPS
- USB3.0 power supply
- One key auto white balance
- Support YUV/MJPEG video output
- Support OSD menu
- Driver-free option, strong compatibility

Product Appearance



ONIX PRO Cx3 Menu



Main Functions & Parameters

System Parameters	
Image Sensor	1/2.8" SONY CMOS
Effective Pixels	1945(H) × 1109(V) Approx. 2.16M pixels
Scanning System	Progressive
Resolution	1920X1080P
Min-illumination	Color:DSS:0.017LUX, BW DSS: 0.08 LUX
USB	USB3.0
S/N Ratio	More than 42Db
Power(Max.) supply	DC5V ± 10%(USB power supply)
Working Current	250mA± 10mA
working temperature	-20°C to 60°C
Main Function Parameters	
Brightness	1-20 steps
AGC	1-20 steps
BACKLIGHT	OFF/BLC/HLC/WDR
Color(AWB)	One key auto white balance
DNR	OFF/ON
Sharpness	1-10 steps
MIRROR/FLIP	OK
DEFOG	OK
Language	English

5. Troubleshooting

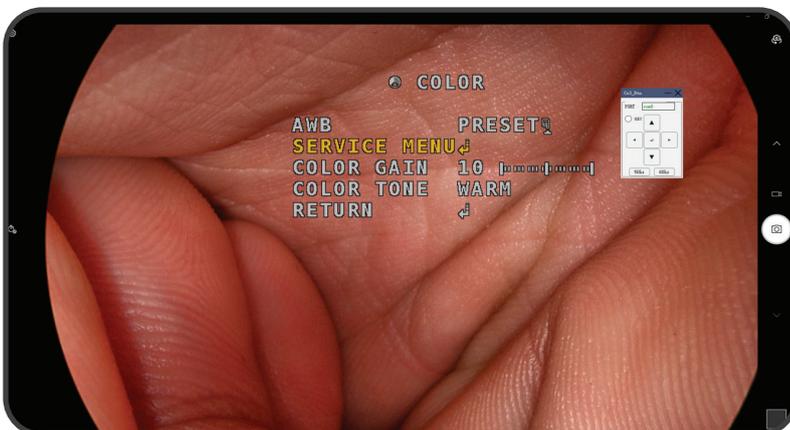
Step 1

Enter the camera menu through the Cx3_Bth menu controller, and select the **COLOUR** option through the Cx3_Bth up and down arrow keys.



Step 2

Enter the **COLOUR** option and select **SERVICE MENU**



Step 3

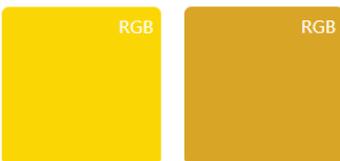
Enter the SERVICE MENU, there will be 8 COLOUR Troubleshooting parameters as follows



Note:

- From top to bottom are the (GAIN) four COLOUR of “yellow, blue, green, and red” and the (HUE) of the four COLOUR of “yellow, blue, green, and red”, with a total of 8 adjustable parameters.
- It is recommended to generally troubleshoot the four parameters of Y_GAINN, R_GAINN, Y_HUEN and R_HUEN, and use the default values for others.
- The larger the Y_GAINN parameter value the higher the yellow concentration, the larger the R_GAINP parameter value, the higher the red concentration:

Y_HUEN: Parameters from small to large



R_HUEP: Parameters from small to large



The above is for reference only. Specific troubleshooting is subject to the real-time testing.

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