



TERADEK, LLC

Entellus XpressView

Wireless Camera System

Instructions for Use

Rev 1.0



Introduction

The XpressView system is a wireless HD camera and receiver system. The system is intended for use in a physician's office, with an operator handling the portable wireless camera system, while it is transmitting a wireless video signal to a receiver. The receiver is connected to a video monitor via an HDMI cable.

Description

The XpressView system consists of two parts: a battery powered, portable camera with a built-in wireless video transmitter, and a wireless video receiver module.

Preparing your camera system

- Screw the lens coupler to the C-mount threads of the camera.
- Install the Endoscope probe into the coupler.
- Connect the LED light source to the endoscope light source connector.
- Connect the LED light source cable to the LED power connector on the side of the camera.
- Slide the battery into the battery holder, and secure with battery clamp over the back of the battery.

Hooking up the Receiver

- Connect an HDMI cable from the receiver module to the HDMI port on a high definition monitor.
- Connect the barrel connector of the AC power supply to the 12V input on the receiver.
- Place the receiver above the video monitor, using the hardware bracket provided.

Powering up the devices

- Plug the receiver module's AC power adaptor into a 110V outlet.
- Push the power button on the top of the camera module.
- Video will appear on the monitor within 10 seconds of powering up the camera module.
- The LED's on the receiver module are as follows:



- Power: This LED will illuminate as soon as power is applied to the receiver.
- Link: This LED will illuminate to show that the receiver has a link to the transmitter.
- Video: This LED will illuminate to indicate that the transmitter module has a valid video signal to transmit.

Setting the White Balance:

- Point the tip of the endoscope at a white sheet of paper under good lighting conditions
- Push the WB button on the camera module
- Hold the camera still while observing the video monitor
- Once the “White Balance” text disappears from the monitor, the operation is complete.

Focusing the camera

- The camera system can still be focused like any other camera, by adjusting the focus ring on the lens coupler device.
- Hold the endoscope at the approximate expected focal distance from any object, and adjust the focal ring until the center of the image on the monitor is in sharp focus.

Using the XpressView camera

(It is highly recommended that an operator receives basic endoscope operation training before attempting to use the XpressView device on a patient.)

- Insert endoscope probe into patient’s nose while observing the image on the video monitor.
- When a surface is approached, the LED light will automatically adjust, so as not to over expose the scene.
- If a scene is not illuminated correctly, adjust the LED light levels up or down, using the “+” or “-” buttons on the camera module.
- Note that there are 8 light intensity settings, so only every second level will correspond to a new brightness indicator being lit.
- Once a comfortable illumination is set, this setting needn’t constantly be changed, since the device will automatically adjust the light intensity.



Going into Standby Mode

- When the camera module is not needed for a period of time, simply place the device on a stable surface such as a table. There is no need to power the device down.
- After approximately one minute of no movement, the camera module will go into a low power, standby mode.
- If the camera system is picked up or moved within 30 minutes of entering standby mode, it will re-enter full power mode and continue operating where it had left off.
- If the device is left in standby mode for 30 minutes, it would automatically shut down. The receiver module will stay powered on indefinitely.

Powering the system down

- After use of the system, the camera module can be turned off by pushing the power button.
- The receiver module can be powered down by removing the barrel connector from the device, or disconnecting the AC adapter from the 110V outlet.

Low Battery Indication

- Once the battery reaches the final 5% of its operating duration, a low battery indication will appear on the video monitor, and the lowest battery level indicator on the camera module will start flashing.
- At this point it is recommended that the camera module is shut down, and the battery is replaced with a fully charged battery.
- The time to shut down, remove and replace the battery and power up again is less than 30 seconds.

Using the system with an external light source

- Simply disconnect the LED light source from the endoscope and its power cable from the camera module, and connect an external light source to the endoscope.
- The camera module will change operating modes and automatically compensate for the brightness level of the external light source.
- Note that the brightness adjustment pushbuttons will not work in this mode.