



PROSIGHT DELAY-FREE HD CAMERA

The CONNEX™ ProSight Delay-Free HD Camera is optimized for both indoor & outdoor flights, featuring advanced High-Dynamic-Range sensor, allowing high-definition delay-free crystal clear video

High-Definition, 115dB HDR, delay free Camera

The CONNEX ProSight HD camera is a latency-free digital HD FPV camera. It is equipped with an advanced 115dB high dynamic range 1/3" sensor, with 4.2 micron pixels' size, allowing HD video capture (1280x720 pixels) at any environment, including low-light scenes or high-contrast lighting conditions.

The CMOS HDR camera allows for both indoor & outdoor flights, with 2.8mm HD grade lens with IR filter, providing 105 degrees of field of view (FOV). The camera is compatible with other S-Mount lens, allowing adapting FOV. Notice that the provided lens includes an IR filter on the lens.

High Quality Mode and High Performance Mode

ProSight HD camera support two operational modes, easily selected via the system OSD. A pilot may choose the mode best fits his personal preference, environment and specific flight scenarios:

	High Performance Mode	Image Quality Mode	High Performance Plus mode
Camera Resolution	720i60	720p30	720i60 with zoom mode
Latency	< 9 mSec	< 26 mSec	< 9 mSec
Rx Output Resolution	720p60	720p60	720p60

The ProSight camera also support 3 levels of night mode and anti-flickering mode.

Technology and output

The ProSight HD camera is connected to the ProSight transmitter via a MIPI interface. This is an HD dedicated video interface allowing for no additional processing delay between the camera and the transmitter.

Both CONNEX ProSight HD Transmitter and ProSight HD Receiver utilize enhanced MIMO technology. The video is transmitted over two transmitting antennas and received by five receiving antennas. It is then decoded from 5GHz RF signal to a standard HDMI video signal.

In order to comply with all popular HDMI based goggles and screens, the HD Receiver up-converts the incoming 720p HD video stream, creating a 720p60 HD video output. It was tested with all popular goggles in the market.

Size factor flexibility and setup

The CONNEX ProSight camera is a CMOS sensor based camera which allows the smallest form factor combined with best performance. The camera uses a rolling shutter which requires a stable platform or system mechanical dampening.

The basic ProSight set box includes two types of vibration dampers: a porch like element and a camera protective case. Both solutions were tested and are proven to provide best results.



PROSIGHT DELAY-FREE HX CAMERA

The CONNEX™ ProSight Delay-Free HX Camera is optimized for both indoor & outdoor flights, allowing high-definition delay-free crystal clear video

High-Definition, delay free Camera

The CONNEX ProSight HX camera is a latency-free digital HD FPV camera. It is equipped with a 1.4mm HD rated lens with a built in IR filter, allowing HD video capture (1280x720 pixels) at any environment, including low-light scenes or high-contrast lighting conditions.

The CMOS camera allows for both indoor & outdoor flights, providing 126 degrees of field of view (FOV). The camera is compatible with other S-Mount lens, allowing adapting FOV. Notice that the provided lens includes an IR filter on the lens.

One Video mode for all

ProSight HX camera support only one operational mode:

	HX camera
Camera Resolution	720p60
Latency	< 1 mSec
Rx Output Resolution	720p60

The HX ProSight camera also support 4 different color modes (Preset 1, Preset 2, Sepia and Black and white), 3 levels of night mode, and 3 levels of saturation.

The anti-flickring mode is built in for the HX camera.

Technology and output

The ProSight HX camera is connected to the ProSight transmitter via a MIPI interface. This is an HD dedicated video interface allowing for no additional processing delay between the camera and the transmitter.

Both CONNEX ProSight HD Transmitter and ProSight HD Receiver utilize enhanced MIMO technology. The video is transmitted over two transmitting antennas and received by five receiving antennas. It is then decoded from 5GHz RF signal to a standard HDMI video signal.

Size factor flexibility and setup

The CONNEX ProSight camera is a CMOS sensor based camera which allows the smallest form factor combined with best performance. The camera uses a rolling shutter which requires a stable platform or system mechanical dampening.

The basic ProSight set box includes two types of vibration dampers: a porch like element and a camera protective case. Both solutions were tested and are proven to provide best results.