Versatile System Components

HDFA-200 HD Optical Fiber Adaptor Unit

The HDFA-200 is an optical fiber adaptor which employs sophisticated high bit-rate transmission technologies to realize stereoscopic 3D camera operation.
You can configure an unprecedentedly high-performance, highly compact 3D camera rig using the HDFA-200 combined with the POV-style HDC-P1 HD Multi-purpose Camera.
Alternatively, a simple system can be configured using the HDFA-200 with a single optical fiber cable.
The HDFA-200 can also transmit RGB 4:4:4 signals using an F35 Digital Cinematography Camera with a 35-mm-sized CCD sensor and PL lens mount.
With its sophisticated performance and functionality, the HDFA-200 is ideal for a broad range of applications such as 3D live production and TV program production with digital cinematography cameras.

Features

Optical fiber transmission

By employing high bit-rate digital optical fiber transmission technologies, signals can be transmitted from two cameras to a camera control unit (CCU) with a single optical fiber cable. Power*1 and genlock signals can also be supplied to the two cameras.

*1 Up to DC 13 A (14 V) power can be supplied. It depends on connected devices or the cable length.

Stereoscopic 3D multi-camera operation

The HDFA-200 provides a data transmission capability that includes two-channel audio input, intercom, and trunk data (a general-purpose control signal via a CCU and the HDFA-200). The adapter unit lets you carry out 3D multi-camera system operation as simply as with a conventional camera system.

Beneficial single remote panel operation

Flexible 3D system camera operation is assured. You can control left-eye and right-eye cameras simultaneously or separately for individual adjustment.

Viewfinder output with multiple diagnostic/monitoring modes

The HDFA-200 has a viewfinder output, which offers several ways to display the output from the two connected cameras. You can choose from Split, Mix, and Difference modes, as well as a variety of other options designed to ease the process of rigging 3D camera pairs.

3D monitoring with a viewfinder

The viewfinder (VF) connector on the HDFA-200 can output just right-eye, left-eye, or both right- and left-eye signals. In both right- and left-eye signals mode, you can select split-, mix-, or Y difference-mode for adjustment of the 3D rig.

Features

Lens metadata linkage with MPE-200

The focal length of the lens, zoom position, and iris data are overlaid on an HD-SDI signal output from the CCU as metadata when using a lens supporting serial data transmission. This enables powerful operation for a 3D live production combined with the HDFA-200.

Remote operation of a 3D rig using a trunk data line

General-purpose control signals of up to 150 kbaud can be transmitted as trunk data. This enables RS232C or RS422 signals to be transmitted between a CCU and the HDFA-200, such as operation signals for a 3D rig.

H/V inverting function

The HDFA-200 is equipped with a function that compensates for picture inversion caused by a half-mirror rig such as replacement between right- and left-eye pictures, mirror reversed-picture of horizontal, vertical, or both horizontal and vertical direction. In addition, the amount of signal delay caused by picture inversion is automatically controlled.

Simple system integration with the HDC-P1

By adopting a universal synch cord adaptor, a CCA5 interface control cable is unnecessary for connecting the HDC-P1 HD multi-purpose camera. This makes the system easy to build.

Lightweight and compact

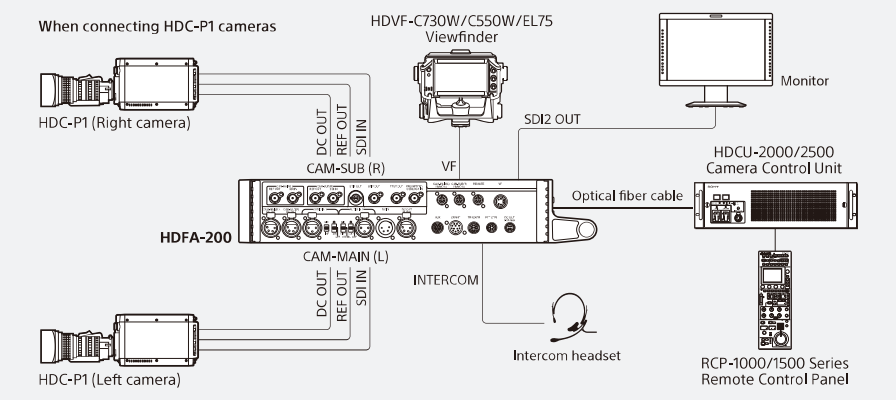
The HDFA-200 is designed to be very compact and lightweight for superior mobility in the field. It weighs approximately 3.8 kg (8 lb 6 oz). It's easily mounted to a 3D rig, a tripod adaptor, or a universal clamp due to its many general-purpose mounting screw holes.

Optical fiber transmission

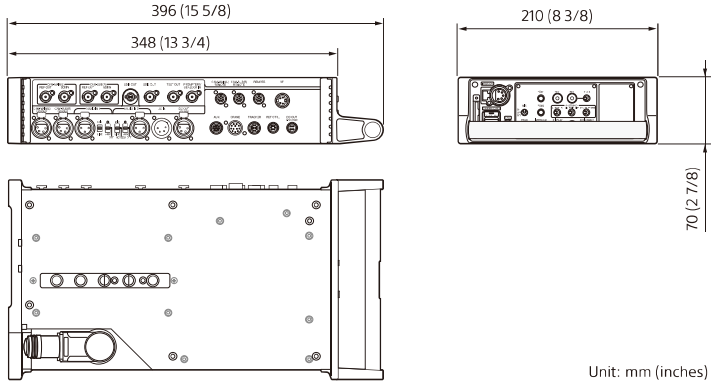
Offering a high bit-rate digital optical fiber transmission capability, the HDFA-200 can transmit two cameras' signals to a connected camera control unit, and supply power and genlock signals to the cameras as well with a single optical fiber.

System Example

Two cameras with a CCU



Dimensions



Unit: mm (inches)