

## **FieldCast Fiber Dock One**

FieldCast Fiber Dock One is a 1RU four-channel fiber optic converter designed for 3G SDI PTZ camera systems with ethernet control. If you want to go fiber with these the easy way, go Fiber Dock One.

### **Overview**

As a four channel solution, Fiber Dock One brings you four channels of 3G SDI output, so you can connect straight to your switcher or monitor, but instead of coaxial cable, it uses fast and reliable fiber optic connectivity to transport the video signals generated by your PTZ cameras.

You can connect your PTZ controller directly to the Ethernet i/o port of Fiber Dock One, and it will act as a standard ethernet switch between your controller and your cameras, but again, instead of copper cable, it uses fast and reliable fiber optic connectivity to communicate with them.

Furthermore, Fiber Dock One features a four channel 24VDC power supply to power all four cameras over the cable.

And here it comes all together. For every channel, Fiber Dock One connects to FieldCast hybrid cable, and this light and robust cable contains two strands of fiber for data transport and two copper conductors for power transmission. Just imagine, each camera only needs one flexible cable to transmit uncompressed SDI video, control data, and power!

At the other end of each hybrid cable you only need to attach FieldCast PTZ Monk, a one channel fiber optic converter with 3G SDI input, Ethernet i/o and 12VDC output. Once your PTZ camera is connected to FieldCast PTZ Monk, it can start up, it will listen to the PTZ controller you connected to FieldCast Fiber Dock One, and a video signal will neatly show up at one of the Dock's four SDI monitor outputs.

### ***Basic concept***

Fiber Dock One is part of the easiest FieldCast fiber optic system, designed for high-quality PTZ cameras with uncompressed 3G SDI output and ethernet control. The basic concept behind the system is simple. A multiple channel converter uses hybrid fiber optic cables to connect to the PTZ cameras. Each cable has a small active box at the end, powering the camera and connecting to its SDI output and its ethernet connector. And here you are: power, video and control data over just one cable!

### ***How does it all connect?***

Fiber Dock One comes with a power cable. It receives 110/220V AC power and sends 24VDC power out to devices in the chain.

To make Fiber Dock work at a minimum functional level, you need at least 1 FieldCast PTZ Monk and 1 FieldCast Hybrid Main Cable. Connect the FieldCast Hybrid Main Cable to Fiber Dock One at the one end and to PTZ Monk at the other end.

Now connect the third-party products. Use FieldCast PTZ Monk to connect to your PTZ camera. Use the ethernet i/o port of Fiber Dock One to connect to your PTZ controller. Use the SDI out port of Fiber Dock One to connect to your switcher and, alternatively, use the dual SDI out port to connect to a monitor.

You now can control and monitor 1 PTZ camera with 1 PTZ controller and only need 1 fiber optic cable to feed both camera and controller, and transport video and camera control data over the same cable.

With Fiber Dock One you can connect to a maximum of 4 PTZ cameras, using 4 FieldCast PTZ Monks and 4 FieldCast Hybrid Main Cables. Is 1 PTZ controller in your setup not enough? No problem. Just use Fiber Dock's ethernet i/o port to connect to an ethernet hub and subsequently connect to as many PTZ controllers as you want.

### **Features**

Fiber Dock One comes with a power cable to be plugged in the 110/220V AC power input of the unit. Inside, A/C power is converted to 24VDC power, so it can output low voltage power over fiber optic cable to power up PTZ controllers, FieldCast PTZ Monks, and PTZ cameras.

The front side contains 1 Ethernet i/o port to connect to a PTZ controller or ethernet hub. You don't need to power the PTZ controller with its own power supply. You can have Fiber Dock One supply the power for your PTZ controller. Just use the XLR connection at the backside of Fiber Dock One and connect to the DC In of your PTZ controller. Now the PTZ controller is powered by Fiber Dock One.

At the backside, Fiber Dock One houses 4 FieldCast Hybrid Chassis Connectors to connect to 4 FieldCast Hybrid Main Cables. Each chassis connector contains two strands of fiber for data transport and two copper conductors for power transmission. Over fiber, each connector receives uncompressed SDI video from a PTZ camera and carries ethernet (camera control data) i/o. Over the copper conductors, each chassis connector delivers 24VDC power output to power up a FieldCast PTZ Monk and a PTZ camera. Just imagine, each camera only needs one flexible cable to transmit uncompressed SDI video, control data, and power!

The backside of Fiber Dock One also houses 4 channels of 3G SDI out, with dual SDI output per channel. So per channel, you can connect for instance to your switcher and

uses the dual output to locally monitor the SDI video generated by the PTZ camera.

### **Specs**

- Dimension 1RU 19 inch box. Dimension (width x depth x height): 44 x 20 x 4.36 cm
- 110-220V A/C power input
- 1x Ethernet i/o port
- 1x XLR for 12VDC power out
- 4x FieldCast Hybrid Chassis Connectors each carrying SDI-in video over fiber, ethernet i/o over fiber, and 24VDC power out
- 4x 3G SDI out, with dual SDI output per channel.
- Product code: co202