

STUDIOtech

AUDIOVISUAL ENGINEERING AT ITS BEST!

Services offered to customers include:

- Import, distribution and sales of professional audiovisual equipment
- Advice to match customer requirements to product features
- Design and installation of turnkey projects
- Engineering, installation and dynamic after-sales service
- Service and repairs in company workshop
- Maintenance contracts
- Spare parts given priority status
- In-house training and helpdesk for all sales

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- ADVICE
- DESIGN
- TRAINING
- INSTALLATION
- AFTER-SALES
- MAINTENANCE

Studiotech Mobile Studio System

FibreInterface

www.studiotech.be

Mobile Studio System

CAMERA SYSTEM

Each camera system is composed of a Vinten tripod, a camera and a junction box developed by Studiotech and serving as dedicated interface between the mobile studio and each camera. Almost all industrial and broadcast cameras can be integrated without modification.

By default, the proposed industrial camera is Sony PMW-200.

The default broadcast cameras are Sony PMW-300/320/400.



In general the junction box is mounted on a leg of the tripod with an industrial camera.

With a broadcast camera, the junction box is V-mounted straight to the back of the camera and supplies power to it.

Each junction box can output up to 50W power.

A mounting plate is part of the tripod kit and supports on one side the camera and on the other side a 7" monitoring screen enabling the cameraman to view either the Program signal back from the mobile studio or its own video signal.



STUDIOTECH MOBILE STUDIO SYSTEM

In the field, the STUDIOTECH mobile studio system gives access to all necessary facilities to manage multi-camera news gathering events.

One of the numerous advantages of the system is its full compliance with IATA transportation regulations, at authorized size and weight level.

Another key factor is the possibility to make Program (and/or Preview) signals available for transmission as would be the case with a fixed studio.

A major advantage of the mobile studio system is its easy and quick installation. Simply set-up the cameras at the most favourable location and connect the multi-wire drum after unwinding a required length of cable. Mains connection and output signal connection will complete the installation and make the system ready to use.

The multi-camera system (maximum capacity is four HD-SDI cameras used with embedded audio) only needs one single AC supply source.

The camera type can be either industrial or broadcast.

The distance between the control system and the remote cameras is a standard 100 metres.

The connection for each camera is via a specially developed Studiotech single cable wound onto a manual drum.

SIMPLE & EFFECTIVE

The camera type can be either industrial or broadcast



STUDIOTECH S.A. - N.V.
Houtweg 7, B-1130 Brussels Belgium
Tel: +32 2 266 13 80 Fax: +32 2 266 13 88
www.studiotech.be info@studiotech.be

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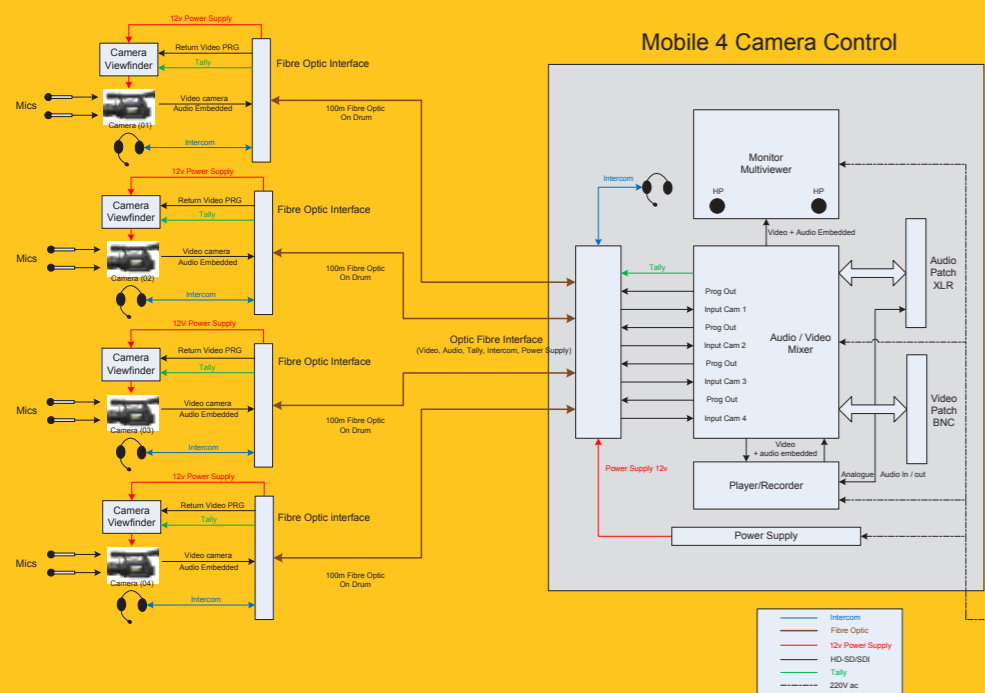
Studiotech Mobile Studio System

STUDIOTECH INTERFACE

A fibre interface developed by Studiotech permits the translation between the audio/video signals and the optical signals. The (single mode) fibre connectors are interfaced via specific connectors and cables going to and from the cameras.

The fibre interface used to transform the SDI and intercom signals into optical signals and vice versa is one of the dedicated elements in the concept of the Studiotech mobile studio.

The applied solution has 4 blocks of fibre interface at mobile studio level and 1 block for each of the junction boxes of the four camera systems.



Each block can manage an incoming SDI signal (e.g. a camera), an outgoing SDI signal (e.g. Program) and an intercom audio signal.

The junction box of the camera system also has a control panel managing amongst others the monitoring signal switching and the intercom PTT.

There are five connectors for; DC supply, Tally, intercom headset, input video and output video.

CABLE DRUM

We use a manual drum with a 100 metre (by default) length of cable. Practically, the drum remains close to the control system and the operator unwinds the necessary length to his camera site. The cable includes a dual optical fibre which carries the audio/video signals in both directions.



MOBILE STUDIO

The Studiotech mobile studio control system includes AC power distribution within the system and AC-DC converters for remote supply to the camera systems. It also includes all connections to and from these camera systems as well as the outputs for Program and Preview. An XLR type connection interfaces the intercom headset to the cameramen.

A 24" screen is mounted in the lid of the transportation case and displays all sources and output signals through a 10 signal multiviewer. The origin of each signal is clearly indicated.

The main part of the mobile studio is the audio/video switcher. In this application, it is a Sony MCS-8M multi format compact switcher. This switcher has one mix effect and provides to the operator the four signals coming from the cameras and the two Program and Preview output signals. A Sony PMW-50 XD CAM HD 422 card recorder/player completes the components of the mobile studio. It is fully compatible with the proposed default cameras.

The mobile studio receives the audio/video signal from each camera and returns the Program signal (it can be another signal if required) to each of the cameras.



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