

DTS1800 Fibre System.

Features

- Transforms camcorders into live to air channels.
- Up to 12G transmission for 4K.
- Optional SL12G outputs simultaneous to QL3G output.
- Optional De-bayer board for Panasonic VLT 4K RAW.
- Up to 1.5G HDS DI & CVBS return video channels.
- 2 x Intercom channels for Engineering & Production.
- Program Audio monitoring at FCA & FBS.
- Full camera / lens remote control
- Red and Green tally
- Timecode input / output
- 100W Power available for Camera and Accessories.
- 2km working distance using Hybrid Fibre Cable.
- 10km distance with external FCA power.
- Swivel-jointed fibre cable connector.



1820-12G with VLok rear battery dock for external power.

Description

The DTS1800 is an optical fibre broadcast video, audio, control, tally, monitor, intercom and power transport system offering native, uncompressed transmission of up to 4K video. The Fibre Adaptors small size, light weight make the system ideal for transforming cameras/camcorders into full facility live broadcast channels for tv studio or outside broadcast.

The system can be interfaced to many different camera models from different manufacturers including Arri, Panasonic and Sony. It consists of a compact Fibre Camera Adaptor (FCA) and a Fibre Base Station (FBS). The two units are connected by hybrid fibre/copper cable over distances up to 2Km with 100W of power available for the camera and accessories over this distance.

DTS1810-U 1U Fibre Base Station.



Systems can be configured with unique options such as Dual Link 6G inputs for Arri cameras and even a de-bayer board for use with the Panasonic Varicam LT 4K RAW output unlocking the 4K Live potential of the camera.

A comprehensive intercom/call system allows both production (Pd) and engineering (Eng) channels to communicate with each other and the FCA. Menu controls define which channel is fed to which headset earpiece and Program audio can also be monitored in the intercom. The DTS1830 intercom cord control pod is an option which allows the camera operator more convenient access to the intercom controls.

Both red and green tally signalling is included with indicators on the FBS and FCA. The FCA has a large translucent lens on top which can be seen through 360°. Intensity is menu adjustable.

Cable Functions

Base Station



Camera Adaptor

- 4K Program Video
- HDS DI Video
- CVBS Monitor
- Program Audio L
- Program Audio R
- Cam control return
- RS232/422 return
- AES Audio
- Timecode
- Intercom 1
- Intercom 2
- Ethernet

- HDS DI VF
- CVBS VF
- Cam control
- Lens control
- RS232/422
- Timecode
- Intercom 1
- Intercom 2
- Tally Red
- Tally Green
- Genlock
- Program Audio
- FCA Power
- Ethernet



DTS1810-S ¼ U Fibre Base Station Module.





DTS1800 Technical Data.

Mech/Power.	
Cable Length.	2000 Metres.
Camera and Accessories Power.	100W
Fibre Adaptor Weight.	1.1Kg.
Fibre Adaptor Volume.	1110 cm ³ .
Base Station Weight.	2.1kg.
Base Station Volume.	4644 cm ³ .
DTS1810-U Base Video Out.	
QL3G 4K@60P, DL3G, 4 x SL3G •	4 x BNC.
2 x SL12G,/DL6G/ 2 x SL6G/SL3G •	2 x BNC.
1 x SL3G Monitor Out. •	1 x BNC.
2 x 1.5G Monitor Out.	2 x BNC.
2 x Composite Video Out.	2 x BNC.
DTS1810-U Base Video Inputs.	
1.5G Ret Video & Sync.	1 X BNC.
2 x Analogue Genlock Black/Burst/Tri Level.	2 X BNC.
CVBS Return For QTV/Teleprompt.	1 x BNC.
DTS1810-U Base Audio Out.	
Embedded Audio On Programme video & Monitor Out. •	5 x BNC
Analogue Audio. •	XLR5 Male.
2 x AES Audio.	2 x BNC.
DTS1810-U Base I/O.	
LTC Timecode In/Out.	1 x BNC.
RS232/RS422/RS485 (Accessories/Cam/Lens Control.)	2 x 9W-D & 1 x 15W-D
Ethernet. Cam control.	2 x RJ45
Intercom PD/ENG (2 Channels) & Call	1 x 15W-D
Intercom Headset.	1 x XLR5-F
Red & Green Tally.	1 x 9W-D

Fibre Adaptor Inputs.	
DL6G/SL6G/DL3G/QL3G/4K RAW •	Din 1.0/2.3
1.5G HD-SDI Monitor.	Din 1.0/2.3
Composite Video Monitor Channel.	BNC
External 12-17V IN	V-Lok or Anton Bauer
Fibre Adaptor Out.	
2 x R & G Tally.	12W HR-30 & 10W HR-30
Composite video QTV/Teleprompt Out.	12W HR-30
3G Mon/QTV •	BNC
1.5G Return Video/Sync.	Din 1.0/2.3
Analogue GL Black & Burst/Tri level.	1 x BNC
2 x 1.5G Monitor •	Din 1.0/2.3 & BNC
+12V/24W VF Power.	12W HR-30
+12V/50W AUX Power.	3W HR-30
Program Audio AES.	10W HR-30
Fibre Adaptor I/O.	
LTC Timecode.	BNC
RS232/RS422/RS485 (Accessories/Cam/Lens Control.)	10W HRS, 12W HRS & 6W HRS
Ethernet. Cam control.	RJ45
Intercom PD & ENG (2 Channels.)	2 x 6W HRS

• Version and Option dependent.

E&OE.