



Reduce your fiber requirements by using Coarse Wavelength Division Multiplexing, in an easy, powerful management unit.

Telecast's Teleport multiplies the effectiveness of your fiber optic cables, and solves your high bandwidth needs. The results are lower cable costs and simpler management of your facilities.

Coarse wavelength division multiplexing (CWDM) has become the preferred approach to optical multiplexing in digital video/audio communications because of its reliability and cost advantages. Designing systems around CWDM, however, can be a complex task. The Teleport makes CWDM easy, flexible and economical.

The Teleport accepts the optical output of virtually any digital transmitter, such as our Viper, Adder, Cobra, etc., and turns the signal into a specific CWDM wavelength. At the other end, A CWDM demultiplexer directs the signal to your standard receiver. No need to purchase customized wavelengths on each system, or buy spares for each wavelength.

Save Cable Cost, Save Effort

You can take the fiber optic systems you now own, and combine them all on one or two fibers. If you work in the field, you can retire those 12-fiber cables and buy low cost 2-fiber cables. Easier to maintain, cheaper to replace, and faster to repair.

If you want to transport your signals between facilities on dark fiber, you will appreciate the cost benefit of leasing fewer fibers to carry more information. Or if you need fiber paths in a stadium, campus or other facility, the fewer fibers you need, the easier it is to find them.

With the Teleport, all your systems are CWDM ready. This means when you have that big event, you can bring in more equipment, and it is automatically compatible with the Teleport.

With each port capable of 2.5Gbps transfer, one unit can support up to eight HD cameras, 2,048 AES channels, or any mix of signals you may need at the time.

Features

- *Translates & repeats as CWDM*
- *Mux up to 8 optical signals on 1 fiber*
- *Up to 2.5Gbps on each channel*
- *Up to 30km distance on single mode*
- *Standard 1300nm or 1550nm inputs*
- *Dual CWDM single fiber outputs*
- *Front panel monitoring of all I/O*
- *Redundant power supplies*
- *Fast plug-and-play operation*

Benefits

- *Lower cable life cycle costs*
- *Lower labor & maintenance costs*
- *Easier access to infrastructure fiber*
- *Easier reconfiguration of signals*
- *Extended life for existing equipment*

Compatible With:

- *All Adder I Audio/Data/Intercom*
- *161, 882, 882i, 162 & 322*
- *All Adder II series, including Natrix*
- *All CopperHead systems*
- *Digital Cobra Triax Extenders*
- *DiamondBack (I & II) video muxes*
- *Mamba HD/SDI Patchbays*
- *Python (I & II) HD/SDI systems*
- *SHED SMPTE Hybrid Eliminators*
- *All Viper II modules, except RF*
- *Rattler™ HD//SDI mini-modules*

Applications

- *Outside broadcasting*
- *Metropolitan video transport*
- *Studio-transmitter links*
- *Interfacility communications*
- *Distance Learning*

Specifications

Transmitter Inputs

Interface	Digital Optical
Input Wavelength Range	1250nm to 1650nm
Input optical power range	-7dBm to -25dBm
Input optical connector	ST
Maximum data rate, per channel	2.5Gbps

Transmitter Output

Interface	Digital Optical, CWDM
Output Wavelengths	
• 1300nm range	
1271, 1291, 1311, 1331, 1351, 1371, 1391 & 1411nm	
• 1500nm range	
1471, 1491, 1511, 1531, 1551, 1571, 1591 & 1611nm	
Output power, per channel, typical	0dBm

Receiver CWDM

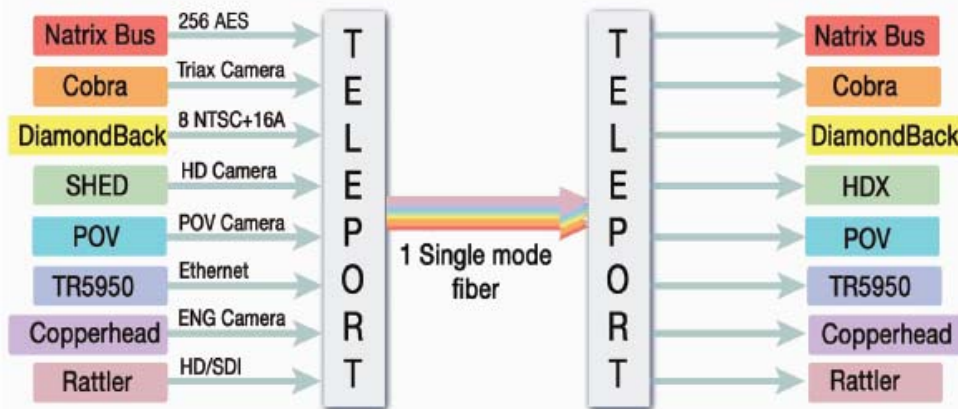
Output Wavelengths	
• 1300nm range	
1271, 1291, 1311, 1331, 1351, 1371, 1391 & 1411nm	
• 1500nm range	
1471, 1491, 1511, 1531, 1551, 1571, 1591 & 1611nm	

Mechanical/Environmental

Dimensions	(LxWxH) 16.7" x 9" x 1.75"
Weight, Transceiver	5 lbs
Input Voltage	12-24 V
DC Power Consumption	< 25 Watts
Indicators	Power On, Sync, Audio/Data
Temperature Range	-20° C to +55° C
Humidity Range	0 to 95% non-condensing



By combining multiple optical signals on a single fiber, smaller, less expensive cables can be used, resulting in lower life cycle costs for your cable plant. A four-fiber Tac-4 cable like the one shown, when used with the Teleport, can carry 2.5 times the information of a more expensive 12-fiber Tac-12 cable. Over time, the cost savings become greater as cable maintenance costs are saved.



Patch the standard laser (optical) output from any Telecast system into any Teleport input port. The Teleport repeats that signal onto a specific CWDM wavelength (color), and all resulting signals are combined with a CWDM summing filter. With 8 different signals now carried on one fiber, the efficiency of the fiber is multiplied eightfold.

At the receiving end, a CWDM splitting filter device directs signals to the proper ports. Two-way Teleport devices contain transmitting lasers as well as both combining and splitting filters.

ORDERING INFORMATION

Order Teleport in one-way or bi-directional systems. Bi-directional systems are identical on either end. One-way systems consist of Teleport transmitters and CWDM multiplexer ends.

• TPT-4TR-2-13-ST.....	4 ch. each way; 2 fiber trunk; 1300nm region
• TPT-8TR-2-13-ST.....	8 ch. each way; 2 fiber trunk; 1300nm region
• TPT-4TX-1-13-ST.....	TX only, 4 channels; 1 fiber trunk; 1300nm region
• TPT-8TX-1-13-ST.....	TX only, 8 channels; 1 fiber trunk; 1300nm region
• TPT-4RX-1-13-ST.....	4-channel RX CWDM demux, 1300nm region
• TPT-8RX-1-13-ST.....	8-channel RX CWDM demux, 1300nm region