

TERESCOPE 10

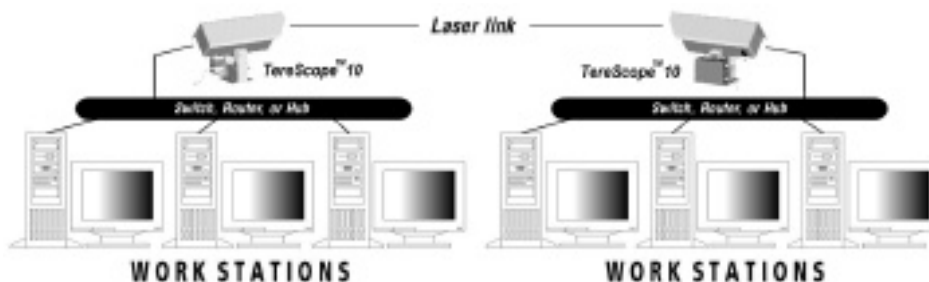


The TereScope™ systems provide direct, fiber-speed service to solve the bandwidth bottleneck often found in last-mile networks. Created from the same technological building blocks existing in today's core networks, Optical Access' solutions are reliable, cost-effective and easy to deploy.

The TereScope 10 systems can be rapidly deployed to provide wireless Ethernet links of 10 Mbps full duplex, at ranges up to 3.5 Km. With its simple mechanical design and small size units, these systems can be quickly installed throughout the metropolitan area.

The TereScope™ 10 provides high-speed wireless connectivity for your campus LAN/MAN environment, when fiber optic cable is difficult to obtain. With a compact and simple design, the TereScope 10 family has a 10 Base-T interface for your network devices. For Ethernet data traffic, the TereScope 10 is a most cost-effective solution for enterprises and carriers. These products comply with Class II or 3A eye-safety standards.

The TereScope 10, like all Optical Access products is fully managed by MegaVision™, Optical Access' SNMP software.

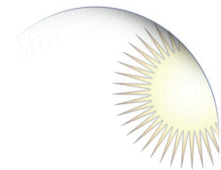


FEATURES

- Accommodates 10 Mbps networks, for Ethernet connectivity.
- Distances up to 3.5 Km
- Fast deployment
- Full duplex; Full speed
- Supports multiple protocols
- License-free operation
- Visual and receive power measurement alignment functionality
- Remote management options
- Selectable output power levels
- Secure transmission
- Eyes safety Class II or 3A (1 or 1m)
- Portable
- Low cost
- 10 Base-T interface

APPLICATIONS

- Last-mile connectivity
- Mesh networking
- LAN/MAN environments
 - Temporary or permanent installation
 - Rapid deployment
 - Disaster recovery
 - Fiber back up



TereScope 10 Specifications

Model	TS702/ETH	TS807/ETH	TS811/ETH	TS940/ETH
Code Number	TS10/A/ETH/VS	TS10/C/ETH/VS	TS10/D/ETH/VS	TS10/E/ETH/VS
Application/ Data Protocol	Ethernet, 10BaseT			
Performance	Rate 10 Mbps			
	Range ⁽¹⁾ @3dB/km @5dB/km @10dB/km @17dB/Km @30dB/Km	540m 470m 390m 330m 250m	1600m 1400m 1000m 750m 550m	2800m 2400m 1500m 1100m 780m
	Bit Error Rate	Less than 10 E-9 (unfaded)		
	MTBF	8 years		
Transmitter	Light Source	1 LED	3 LED	3 VCSELs
	Wavelength	850 nm		
	Output Power	5mW	3mW	16.5mW
	Beam divergence	12mrad	3mrad	1.8mrad
Receiver	Detector	Si PIN		
	Field of view	14 mrad		5mrad
	Sensitivity	-43dBm		
Interface	Type	Copper - 10BaseT		
	Connectors	RJ-45		
	Cables	STP		
Power Supply	Voltage Range	230/110 VAC only	Factory set: 230VAC @50Hz or 100-117VAC @60Hz or 24VDC (or 48VDC option)	
	Power Consumption	7W	22W	
Environmental Information	Operating Temp.	-50 °C to + 50 °C		
	Storage Temp	-50 °C to + 70 °C		
	Humidity	Less than 90% non-condensing		
	Housing	Weatherproof		
Mechanical Design	Dimensions (mm)	430x202x217	412x268x155	713x364x780
	Weight	3.5Kg	4.5Kg	7Kg
	Accessories	3.0kg		3Kg
Diagnostics	Indicators	Airlink: Flag, Sync., Electrical: Flag, Sync.		
	Selectors	Receive Signal Strength	Alignment Loopback (local) Receive Signal Strength(Digital Display) Data Rate, Alignment, Loopback (local) Air Tx Output Power (attenuation [dB])	
Management	Optional board	Using UDP (IP protocol) for transmission of all indications (See Indicators)		
		Connector: RJ45, Compatible with Mega Vision		

(1) @3dB/km = Light rain (5 -10mm/hr)
 @5dB/km = Light to medium rain (15-20mm/hr)
 @10dB/km = Medium to Heavy rain (45mm/hr) - Light snow - Thin fog
 @17dB/Km = Cloudburst(100mm/hr) - Medium snow - Light snow
 @30dB/Km = Rain (up to 180mm/hr) - blizzard - Moderate fog

TereScope 10 Ordering Information

PRODUCT CODE	DESCRIPTION
TS10/A/ETH/VS	TereScope702/ETH ("EtherLight"), Optical Wireless, 250m, ETHERNET Link-10Mbit/s, visual alignment (RJ45). Power supply V1, V2.
TS10/C/ETH/VS	TereScope807/ETH Optical Wireless, 1000m, ETHERNET Link-10Mbit/s, visual alignment (RJ45). Power supply V1, V2, V3, V5.
TS10/D/ETH/VS	TereScope811/ETH Optical Wireless, 2000m, ETHERNET Link-10Mbit/s, visual alignment (RJ45). Power supply V1, V2, V3, V5.
TS10/E/ETH/VS	TereScope940/ETH Optical Wireless, 3500m, ETHERNET Link-10Mbit/s, visual alignment (RJ45). Power supply V1, V2, V3, V4.

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