

## TERESCOPE 1



### FEATURES

- Bandwidth upgradable
- Accommodates 0-100 Mbps networks, for Fast Ethernet,
- Distances up to 200 m
- Immediate deployment
- More than 10 years MTBF
- Lifetime warranty
- No need to run power to the roof
- No need for grounding or lightning protection
- Visual and receive power measurement alignment functionality
- Secure transmission
- Full eyes safety Class 1M

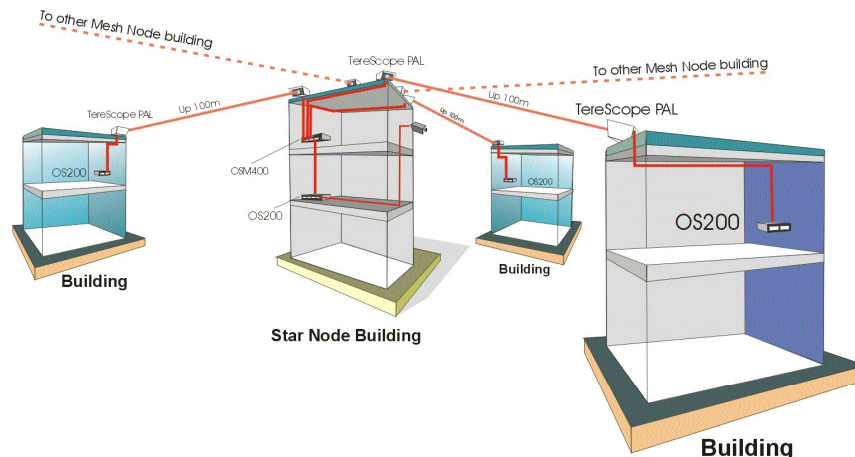
The Terescope™ optical wireless systems provide direct, fiber-speed service to solve the data flow bottleneck often found in the last-mile. They are reliable, cost-effective and easy to deploy for networks and backbones providing high speed wireless connectivity for metro areas.

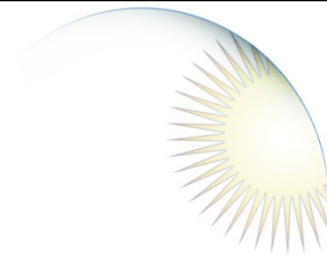
Terescope 1 (Photonic Air Link) systems are passive, electronics and power independent units. They are directly connected via fiber optic to the OptSwitch module that functions as the Terescope 1 network interface unit (NIU). Offering data rates of 100 Mbps, at distances of up to 200 m, these systems avoid the need for costly and time-consuming fiber runs in developed areas. Easy to install and align, these systems can be deployed almost instantly to expand your network as needed. The low cost of the product, combined with the short distances it can connect, make it an ideal and highly reliable solution for dense urban areas and for Ethernet traffic based networks.

The Terescope 1, like all Optical Access products is fully managed by MegaVision™, Optical Access' SNMP software.

### APPLICATIONS

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





## TereScope I - Specifications

<b>Model</b>		<b>TereScope 1</b>
<b>Part Number</b>		TS100/A/DST/VS
<b>Application/</b>		Fast-Ethernet
<b>Data Protocol</b>	Rate	100 Mbps
<b>Performance</b>	Range <sup>(1)</sup> @30dB/km	200 m
	Bit Error Rate	Less than 10 E-12 (unfaded)
<b>Transmitter</b>	MTBF	Lifetime
	Light source (in module)	1 VCSEL
	Wavelength (in module)	850 nm
	Beam divergence	6 mrad
<b>Receiver</b>	Detector (in module)	Si PIN
	Field of view	6 mrad
	Sensitivity (in module)	-34 dBm
<b>Interface</b>	Type	Fiber Optic Transceiver - Multimode
	Transmitter Fiber type	Step-index: 100micron core, NA 0.2
	Receiver Fiber type	Step-index: 400micron core, NA 0.4
	Wavelength	850 nm
	Connectors	ST
<b>Environmental Information</b>	Operating Temp.	-50 <sup>0</sup> C to + 50 <sup>0</sup> C
	Storage Temp	-50 <sup>0</sup> C to + 70 <sup>0</sup> C
	Humidity	Less than 100% non-condensing
<b>Mechanical Design</b>	Housing	Weatherproof
	Dimensions (mm)	375.5x248x155
<b>Management</b>	Weight	Unit: 3 Kg - Accessories: 1.5 Kg Manageable through MegaVision Web™

(1) @30 dB/km = Rain (up to 180 mm/hr) - Blizzard - Moderate fog

## TereScope I - Ordering Information

PRODUCT CODE	DESCRIPTION
TS100/A/DST/VS	TereScope1 Optical Wireless, 200m, Fast Ethernet Link-100Mbit/s, visual alignment .

**United States**  
**DENVER**  
 5299 DTC Blvd., Suite 720  
 Greenwood Village, CO 80111  
 Tel: 1-303-221-6637  
 Fax: 1-303-221-0022  
 E-mail: info@opticalaccess.com

**SAN DIEGO**  
 10343 Roselle St  
 San Diego, CA 92121  
 Tel: 1-858-792-8501  
 Fax: 1-858-792-8503

**International**  
**YOKNEAM**  
 P.O. Box 614  
 Yokneam 20692, Israel  
 Tel: 972-4-993-6200  
 Fax: 972-4-989-2743

opticalaccess.com

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