

# Fiber Optic Transmitter

1310nm



**Sharp Vision Optic transmitters** are based on DFB Technology for transmission of optical signal at 1310nm for Multi Channel CATV Transmission. They are most suitable for HFC networks as they economize & optimize the Broad Band Network and increase reliability and stability.

The DFB technology along with RF pre-distortion circuit have been incorporated to achieve excellent C/N performance - A necessity for Cable TV Network.

Sharp Vision transmitters utilize the expertise of Ortel (USA) who are world renowned in the field of optical transmission & reception technology. Sharp Vision Transmitters incorporate automatic power control coupled with temperature stabilization provided by a thermo electric cooler, which ensures maximum performance, and longer laser module life.



## Features:

- Self Protecting
- AGC & High Linearity
- Slope Correction Circuit
- Excellent C/N, CSO & CTB
- High Quality DFB Fresh Laser
- Displays all Critical Parameters
- Advanced RF Pre-distortion Circuit
- Microprocessor Controls Laser Parameters
- Optic O/P Power: 1310nm : 6dBm~14dBm

1310nm

6 / 12 / 13 / 14 dBm

## Specifications:

- Optical Wave Length : 1310nm
- Optical Output Power : 6 / 12 / 13 / 14 dBm
- Optical O/P Connector: SC/APC
- Freq. Range : 47 ~ 860MHz
- RF Input Level : 75 ~ 85dB $\mu$ V
- CNR :  $\geq$ 54dB
- CSO :  $\leq$ -67dB
- CTB :  $\leq$ -67dB
- Mains Supply (SMPS) : 110 ~ 260VAC, 50Hz, 45W Max.




An International Quality Product from **ANALOG SYSTEMS**

[www.sharpvisiononline.com](http://www.sharpvisiononline.com)

# Comparison Chart of Other Brands & Sharp Vision Optic Transmitters



Other Brands	Sharp Vision
<ol style="list-style-type: none"> <li>1. Design: Mostly contains One Single Big PCB Board for RF, Laser &amp; Microcontroller Circuit.</li> <li>2. Maintenance / Service is not easy.</li> <li>3. Usually No Warranty</li> <li>4. After the warranty, transmitter can not be repaired as neither the software is available nor the components</li> <li>5. Double SMPS because of poor reliability – More Power Consumption – More Heat – Degradation of Components</li> <li>6. Lasers – Mostly refurbished Lasers are used with less life and low reliability</li> </ol> 	<ol style="list-style-type: none"> <li>1. Design: Separate PCB Boards for RF Circuit, Laser Circuit &amp; Microcontroller Circuit.</li> <li>2. Maintenance / Service is easy because the individual cards can be replaced by dealers / distributors.</li> <li>3. Warranty of Six months</li> <li>4. Even after many years of working, Sharp Vision transmitters can be repaired as software and components will always be available</li> <li>5. Single SMPS – Designed as per Indian Conditions – Less Power Consumption – Less Heat – More Life for Components</li> <li>6. Fresh Lasers as per our specifications are used for long life and reliability</li> </ol> 