

Codificación: WT-OTVAD-3000	INFORMACION	TECNICA	
Fecha: 05/05/2008			
Hojas 1de3			
Asunto	SET TX/RX DE AUDIO Y VIDEO 2 CANALES		

## OTVAD-3000

### SET TRANSMISOR Y RECEPTOR DE BANDA BASE CON ETHERNET



### Digital series video, audio, data optical transmitter and receiver

#### Product summarize

OTVAD-3000 digital series optical transmitter and receiver, adopts digital video coding technique and WDM technique to satisfied user's multipath digital video, audio, data, Ethernet's long distant high quality optical fiber transmission because of its full-found. Product including single fiber one way digital video, single fiber 64 routes video, 128 routes audio and data uni-direction and bi-direction complication. OTVAD-3000 send the pickup camera audio/video signal, pickup camera and tripod head control data as well as other control function to control center machinery room from remote end by optical fiber. It can be extensively used in remote monitoring, video conference and other system of remote education public road, industrial and mining area, community and so on.

#### Product feature

- Adopt 10Bit digital video coding, up to secondary quality of broadcast video/audio transmission.
- Automatically compatible PAL/NTSC/SECAM video system.
- None cross interference of analog frequency modulation/ amplitude modulation optical transmitter and receiver.
- 24 digit PCM digital audio coding
- data support RS-232, RS-422, RS-485, Manchester, power switch signal, 10~100M Ethernet port and so on, as well as all main data communication agreement
- multi-mode 0-5Km  
single mode:0-20Km , 0-40 Km , 0-60 Km , 0-80 Km , 0-100Km

- 0 Km use, unsaturation and no need module
- support catenation type self-heal circle network function.
- Third class lightning-protecting engineering
- Build Network flexible, module cassette stander、 independent cassette stander or standard type  
1U casing optional

### Main application

- Video、 audio transmission system of CCTV
- Highway、 traffic monitor、 communicate system
- Market、 industrial and mining area、 electronic safety monitor system
- Military communication system
- Campus network、 video conference、 medical treatment video system

### Technique index

#### Video index

- Coding 10Bit
- Sampling frequency 15.36MHz
- band width 8MHz
- DG <1% ( maximum )
- DP <1°(maximum) ≤0.5° ( typical )
- FT <0.5% ( maximum )
- SNR >67dB ( weighing )
- Input/output resistance 75Ω ( disequilibrium )
- Input/output level 1.0Vp-p
- Video port BNC

#### Audio index

- Sampling frequency 52.3KHz
- Frequency response 10Hz-20KHz
- Coding 24BIT
- SNR >85dB
- Audio input/output resistance 600Ω、 10KΩ、 47KΩ disequilibrium ( equilibrium )
- Nonlinear distortion <1% , ( 1KHz )

#### Data index

- Physical interface shield surpass 5type RJ45

- Data direction forward/reverse /Bi -direction
- Data form RS232/RS422/RS485/Manchester
- Rate 0~256Kbps

#### optical index

- physical interface SC/UPC、 SC/APC、 FC/UPC、 FC/APC、 ST/PC
- optic fiber type single mode 9/125μm、 multi-mode 62.5/125 μm
- wavelength single mode : 1310/1550nm multi-mode : 850/1300nm
- Receiver sensitivity -35dBm(1 route video series)  
-28dBm(more than 2 route audio system)
- optical link ≤25dB ( 1 route audio )

#### Public index

- Power supply 90 ~ 265 city power
- Work temperature -40°C ~ +65°C
- Storage temperature -40°C ~ +85°C
- Work humidity 0 ~95% uncondensation
- Mean-time-to double failure >100,000 hours
- Size、 weight 1U standard casing 482mm(width)×280mm(length)×44mm(height)≤3Kg  
5U stander type 482mm(width)×242mm(length)×222mm(height)≤8Kg

at most 16 slot , 64 route video

Module insert card type 222mm(width)×210mm(length)×28mm(height) ( 1 slot ) ≤1Kg

222mm(width)×210mm(length)×51mm(height) ( 2 slot ) ≤1.5Kg

#### Status indicator

- POWER --- shinny when power turn on
- LOCK --- receive locked indicator , shinny when establish the correct link with transmit leg, to show receiver data.
- DATA --- DATA indicator light twinkle when serial data level used for communications change
- LINK --- the lamp on when IP network connect regularly
- SPD --- IP network communications rate, 100M --- lighten, 10M --- extinguish
- DUP --- FDX --- lighten, semi-duplex --- extinguish