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various working condition of optical output power and laser to ensure the stable optical output power and prolong the working life of laser effectively.

- Built-in large power semiconductor refrigerator, which can enable the equipment to fit the field environment temperature between -40℃ to +60℃.
- Adopt high performance water-proof cast Aluminum housing, high reliable switch supply, strict anti-thunder system, which ensure the equipment work long-time and stably under the field severe environment.

### III. Technical parameter

Item	Unit	Technical parameter									
Output optical power	mw	4	6	8	10	12	14	16	18	20	22
Optical circuit loss	dB	7	9	10	11	11.8	12.5	13	13.6	14	14.4
Optical wavelength	nm	1310±20									
Laser type		DFB laser									
Optical modulation mode		Direct optical strength modulation									
Optical connector type		FC/APC or SC/APC									
Frequency range	MHz	47~750/862									
RF input lever	dBμV	72 ~ 88									
Flatness in band	dB	±0.75									
RF input impedance	Ω	75									
Input reflecting loss	dB	≥16 (47~550) MHz; ≥14 (550~750/862) MHz									
C/N	dB	≥51									
C/CTB	dB	≥65									
C/CSO	dB	≥60									
AGC control range	dB	±8									
MGC control range	dB	±8									
Supply voltage	V	AC 160V~250V (50 Hz)									
Consumption	W	30									
Working temperature	℃	-40 ~ +60									
Storage temperature	℃	-50 ~ +70									
Relative Humidity	%	Max 95%no condensation									
Dimension	mm	430 (L) × 250 (W) × 160 (H)									

Circuit test condition

Special Notice

The performance parameters of this manual is according to GY/T143-2000<< Network Entry Technical Requirements and Measurements Method of CATV laser Optical Transmitter and Receiver>>, and get it at the following condition.

Test condition:

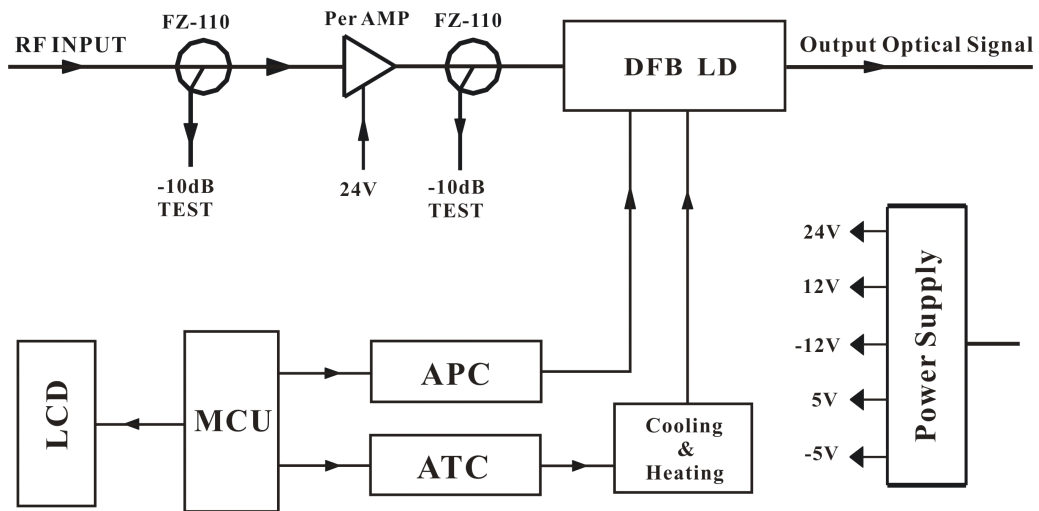
10KM standard optical fiber, optical attenuator and standard optical receiver make up of test circuit. Set with 59 PAL-D analog TV channel signal at range of 550MHz in the stated condition of circuit loss. Transmitting digital modulation signal at rang of 550MHz~862MHz, when the electricity level (8 MHz bandwidth) of digital signal is 10dB lower than analog signal of carrier electricity level, input power of optical receiver is-1dBm, measure C/ CTB, C/ CSO, C/ N.

### IV. Optical Circuit C/N table

Optical circuit loss (dB)	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
WT3304 I	53.8	52.8	51.8	51.0	50.1	49.2	48.2								
WT3306 I				53.0	52.0	51.0	50.1	49.1	48.1						
WT3308 I					52.8	51.9	51.0	50.1	49.1	48.2					
WT3310 I						52.9	51.9	51.0	50.1	49.1	48.2				
WT3312 I							52.7	51.8	50.8	49.9	49.0	48.0			
WT3314 I								52.4	51.5	50.5	49.5	48.6	47.8		
WT3316 I									52.0	51.0	50.1	49.1	48.1		
WT3318 I										52.5	51.6	50.6	49.7	48.7	47.9
WT3320 I											51.9	51.0	50.0	49.0	48.0

WT3322 I										52.2	51.4	50.4	49.4	48.6	47.8
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**V . Block Diagram**



**VI . Order direction**

- The default set of optical interface is FC/APC before delivery, if you have special request, please note it in your order.
- There are two power supply mode: AC60V and AC220V, please note in your order.
- If you have special request for key device such as laser, please note it in your order.