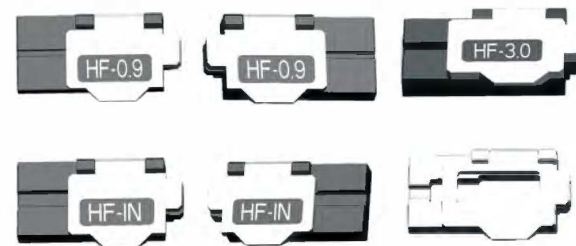


# Digital Fusion Splicer HYTT-F600/F600H



HongYu Telecom Tech Co. Ltd

Gateway of doing BUSINESS!



Top Quality | Top Brands | Total Solutions | Excellent Customer Care

Comprehensive Test Solution for Datacom, Optical Fiber,  
Broadcasting & TV and Wireless Communications

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HongYu Telecom Tech Co., Ltd

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# HongYu Telecom Tech



## HongYu Telecom Tech Co. Ltd

HongYu Telecom Tech Co. Ltd (HYTT), is a leading Hi-Tech company, professionally engaged in the integration and service of deployment and detection of optical communication network. We assured that our productivity is of guaranteed and we can reach into a win-win situation by our cooperation to enjoy our mutual benefit.

### Product Ranges:

HYTT engages in production development and sales of analog and network surveillance system. Products are of the following categories, such as Fusion Splicer, RF Power Meter, ADSL Tester, E1 / Datacom Tester, Signal Level Meter, Optical Power Meter, Optical Light Source, OTDR, Fiber Ranger

### Technical Support:

The full automatic SMT production line and modem equipment, strict checking method, making the super stability of product.

### Administrative Method:

HYTT utilizing advanced information management system such as SA P, OA , and CMMI and with push high-point strategy, ability of continuous innovation. We are able to pursue fastest response to the market requirement.

### Our Goals:

We firmly believe in providing our customers with innovative, superior quality products that are competitively priced and always timely delivered. HongYu Telecom Tech Co. Ltd provides 2-year warranty than most competitors. We would like to develop new partnership for the distributional agents from all over the world.

Lers start our cooperative partnership now!



## Optical Test Instruments

- 01-02** HYTT-F600/F600H Digital Fusion Splicer
- 03-04** HYTT-OT4000 OTDR Testing
- 05** HYTT-FR3303 Optical Fiber Ranger
- 06** HYTT-LS300 Optical Light Source
- 07** HYTT-P100 PON Optical Power Meter
- 08** HYTT-OM3207 Optical Multimeter
- 09** HYTT-VA3301 Optical Variable Attenuator
- 10** HYTT-PM300/500 Optical Power Meter
- 11** HYTT-V3105 Pentype Visual Fault Locator
- 12** HYTT-ID3306 Optical Fiber Identifier
- 13** HYTT-B3307 Optical IL/RL test station

## Broadcasting & TV Test Instruments

- 14** HYTT-S110/S110D Signal Level Meter
- 15** HYTT-S200/S200D Signal Level Meter
- 16** HYTT-S1127D/S1127DQ QAM Signal Level Meter
- 17-18** HYTT-S1130D/S1130DQ QAM Signal Level Meter

## Wireless Communications Test Equipment

- 19-20** HYTT-R2000/R3000/D5000 RF Power Meter

## Telecom Data Test Instruments

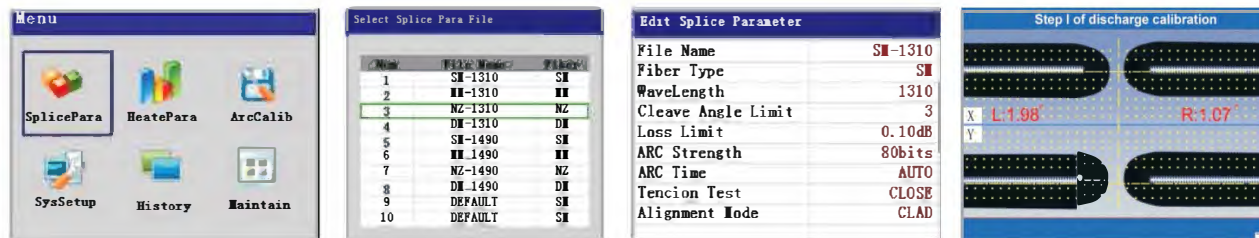
- 21** HYTT-E4100 2Mbit/s Tester
- 22** HYTT-E4300 2M/ E1 Datacom Comprehensive Testing
- 23** HYTT-C500 Optical Fiber Cleaver

# Digital Fusion Splicer

## HYTT-F600/F600H



### » Menu



# Fusion Splicer

### » Features

- Digital fusion splicer with automatic focus function
- Fiber core can be display clearly
- Single X or Y view and X & Y view simultaneously
- Auto detect cleaved endface fault
- Display fiber cleaved and offset angle
- Display core and clad offset
- 5.6 inch TFT color LCD monitor with clear digital image display
- USB & VGA interface
- Software upgrade via USB interface

### » Specifications

Fiber Holders	HYTT-F600	HYTT-F600H
Applicable fibers		With Fiber Holders
Fiber cleaved length	SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), NZDS (ITU-T G.655)	
Fiber diameter	10 ~16mm (Coating diameter<250µm);16mm(Coating diameter250~1000µm)	
Auto focusing	Cladding diameter:80 ~150µm , Coating diameter:100 ~1000µm	
Fiber aligning method	Available	
Average splice loss	Core aligning, clad aligning, manual aligning	
Splicing time	0.02dB (SM), 0.01dB (MM), 0.04dB (DS), 0.04dB( NZDS)	
Heating time	Typical 9 sec,with standard SM fiber	
Applicable sleeves	Typical 36 sec	
Tension test	60mm, 40mm and a series of micro sleeves	
Electrode life	2N(option)	
Battery capacity	5000	
Monitor	Typical 400 cycles (splice and heat)	
Terminal	5.1 inch TFT color monitor	
Operating condition	USB 1.1 and VGA , software upgrade via USB interface	
Splicing mode	0 ~ 5000m above sea level, 0 ~ 95%RH and -10~50oCC, respectively, Max. wind velocity of 15m/s	
Fiber cleaved angle	Auto ,normal	
threshold set	0.1 ~ 10.0 oC , 0.1oCstep	
Power supply	Li-battery 11.8V , AC100-240V DC12.6V/5.0A	
Dimension	L169*W152*H155mm	
weight	2.4kg 2.9kg(battery)	



## HYTT-OT4000



## OTDR-2000/4000

### » Introduction

www.hyteletech.com OTDR-4000 series portable optical time domain reflectometry (OTDR) is the latest FTTx optical fiber test instrument. It has light weight, elegant appearance, small size, easiness of installation and maintenance, high-capacity built-in battery. It provides multiple built-in test wavelengths and optical testing functions like visual fault locator (VFL). As a new product specially designed for FTTx network testing, it provides site technicians with the highest performance and upgrade services.

## Optical Time Domain Reflectometry

### » Features

- Advanced anti-reflective LCD, display interface is clearly visible in bright light
- (VFL)Visual fault location function
- It provides high-speed USB port, waveform file conversion and printing convenience
- Long-lasting lithium battery, ideal for long-time outdoor construction work
- Online upgrade function, users do not have to go back to original factory to upgrade the system.

### » Specifications

Model	HYTT-OT2000	HYTT-OT4000	HYTT-OT5000	HYTT-OT6000
Wavelength	1310nm/1550nm	850nm/1300nm	1310nm/1550nm	1310nm/1550nm/1490nm
Fiber Type	Single-Mode	Single-Mode	Single-Mode	Single-Mode
Dynamic Range	13/15dB	22/23dB	32/30dB	36/35dB
Measurement range (single )		50-60KM	80-100KM	140-160KM
Event dead zone	0.8m/0.1-16m			
Accuracy	±(1m+ Sampling interval +0.003%*Distance) (excluding refractive index imbedding error)			
Resolution	0.1m-16m			
Loss Threshold	0.01dB			
Linearity	0.05dB/dB			
VFL output power	5mW			
Measurement range (single )	1.6km-80km			
Pulse width (single mode)	10ns~1024ns			
Number of sampling points	65K			
Waveform storage capacity	1000frames			
Range of refractive index	1.00000~2.00000			
Range of optical-cable correction factor	0.80000~1.0000			
Display	Color TFT LCD, 5.1 inch, 640*480			
Port	USB			
Optical output port	FC/PC			
Power supply	AC/DC adapter: AC input: 100V~240V(1.5A) Output DC: 9V(2A) Power frequency: 50Hz~60Hz Internal lithium battery: 7.4V, 3200mAh Working hours of battery: 10 hours (normal temperature)			
Menu language	Simplified Chinese/English			
Environmental requirements	Storage temperature: -40oC~70oC(exclusive of battery) Relative humidity 5%-95%, no condensation			
Dimensions	215mm*130mm*66mm			
Weight	About1kg			

# Optical Fiber Ranger

## HYTT-FR3303

### » Introduction

FR3303 Optical Fiber Ranger is the most portable test instrument in the industry. It adopts the OTDR technical principles and integrates the powerful analysis software, which enables the FR3303 Optical Fiber Ranger detect fiber faults location more accurate and easy.



### » Applications

- Testing the distance of the fiber and identify the faults location in the fiber link.
- Locates reflective and non-reflective breaks in the fiber network.
- Inspection of fiber repair and maintenance.

### » Specifications

MODULE	HYTT-FR3303A	HYTT-FR3303B
Operating Wavelength	1310nm/1550nm +20nm	1310nm/1550nm +20nm
Fiber Type	SM	SM
Max. Displaying Distance	15/16dB(40-50km)	30/32dB(100-120km)
Optical Connector Type	FC/PC	
Reflection Event Dead Zone	15m	
VFL Wavelength(option)	650nm	
VFL Output Power(option)	5mW	
Storage Memory	1000 traces	
LCD	640*480, 5.1 inch, TFT	
Communication Interface	USB	
Power Supply	External Power: 9V 2A    Battery: 7.4V 4400mAh	
Language	English/Chinese	
Working Temperature	-5oC~40oC	
Storage Temperature	-10oC~60oC	
Dimensions	215mm*130mm*66mm	
Weight	1kg	

# Optical Light Source

## HYTT-LS300

### » Introduction

HYTT-LS300 optical light source can provide 1 to 4 output wavelengths to meet specific requirements, including the 650nm red source and the 1310/1550nm wavelengths for single mode fiber or the 850/1300nm wavelengths for multimode fiber, as well as other wavelengths according to customer needs. Together with the HYTT-PM-300 optical power meter, it is a perfect solution for the fiber optic network characterization.

### » Features

- Provides 1~4 output wavelengths which can be optional according to customers needs
- CW, 2Hz modulation output at 650nm, and CW, 270Hz, 1KHz, 2KHz modulation output at other wavelengths.
- High stability of the output power
- Stable output wavelength
- Backlight LCD display supports night operation
- Compact size and decent appearance
- Large LCD, easy operation
- Applications
- Maintenance in Telecom
- Maintenance CATV
- Test Lab of optical fibers
- Other Fiber Optic Measurements



### » Specifications

Type	LS300A	LS300B	LS300C	LS300D	LS300E
Wavelengths(nm)	1310/1550nm	1310/1490/1550nm	850/1310/1550nm	1300/1310/1550nm	850/1300/1310/1550nm
Emitter Type	FP-LD, LED or others please specify				
Output Power(dBm)	-6~-7(1310/1550nm), >0 (650nm)				
Spectral Width(nm)					
Output Stability	+0.05dB/15mins; +0.1dB/ 8hours				
Modulation Frequencies	CW / 2(650nm) / 270, 1K, 2K (1310nm/1550nm)				
Optical Connector	FC/PC ( Interchangeable FC/SC/ST connectors can be optional)				
Power Supply					
Battery Operating Time(hour)	45				
Operating Temperature(oC)	-10 ~ +60				
Storage Temperature(oC)	-25 ~ +70				
Dimension(mm)	172*82*33				
Weight	295g				
Recommendation	HYTT-LS300 Handheld Light Source is designed for optimal use with HYTT-PM-300 Optical Power Meter for measuring optical loss on both single mode and multimode fiber cable.				



# PON Optical Power Meter

## HYTT-P100

### » Introduction

HYTT-P100 PON Optical Power Meter is an upgraded version of HYTT-P3201 PON power meter. It aims at the FTTx maintenance and not only can be used to test and estimate the PON signals at the same time, but also the normal power measurement and fault identification. It is a useful, essential and ideal tool for the construction and maintenance of the PON projects.

### » Features

- Providing simultaneous measurement at all three wavelengths (1490nm, 1550nm&1310nm)
- Burst mode measurement at 1310nm wavelength
- Large LCD screen with backlight function
- 10 minutes Auto-off function
- Six calibration wavelength available when tested as Normal OPM (850,1300,1310,1490,1550&1625nm)
- Added VFL Function for quick and efficient fault identification
- Data upload via USB cable
- 1000 storage test records
- 10 different threshold sets.
- 3 Colors LED light Green, Yellow or Red represent 3 types of signal conditions Pass, Warn or Fail.
- Added User self-calibration function in software which used to calibrate the PON module or set the threshold value
- Added Factory Default function in software which enable all the customers setting back to the factory setting.



### » Specifications

Model NO	HYTT-P100		
Measurement wavelength	1310 upstream measurement	1490 downstream measurement	1550 downstream measurement
Pass Zone(nm)	1260~1360	1470~1505	1535~1570
Measurement Range(dBm)	-40~+10	-40~+10	-40~+20
Isolation1310nm(dB)	-	>40	>40
Isolation 1490nm(dB)	>40	-	>30
Isolation 1550nm(dB)	>40	>40	-
<b>Measurement Accuracy</b>			
Connatural uncertainty(dB)	±0.5		
Connatural uncertainty(dB)	<±0.25		
Linearity(dB)	±0.1		
Passing through insertion Loss(dB)	<1.5		
<b>Normal Optical Power Meter Module</b>			
Display	128*64		
Measurement Unit	dB/dBm/ xW		
Resolution (dB)	0.01		
Power Supply	Li battery (9V)		
Fiber Type	SM		
Measurement Range(dBm)	-10~600°C		
Store Range(dBm)	-25~700°C		
Size(mm)	210 x 115 x 55		

# Optical Multimeter

## HYTT-OM3207

### » Introduction

HYTT-OM3207 Integrates the functions of an intelligent optical power meter module and of a highly stable light source module in unit which can perform closed-loop tests by incorporating both modules. Individual regimes of operation can also be manually chosen using menu operation to switch functions. A perfect combination to make your optical fiber tests a lot more convenient.

### » Features

- Includes all the outstanding functions of handheld intelligent power meter(HYTT-PM-300)
- Includes all the outstanding functions of handheld stable light source(HYTT-LS-300)
- Switching of the power meter function and that of the light source by menu operation
- Different light sources and power meters can be built into HYTT-M3207

### » Applications

- Maintenance in Telecom
- Maintenance CATV
- Test Lab of optical fibers
- Other Fiber Optic Measurements

### » Specifications



Model	HYTT-OM3207		
	A	B	C
	Power Meter + Laser Source	Laser Source + Power Meter	Light Source + Power Meter + Laser Source
			<b>Power Meter</b>
Measuring Range(dBm)			-70~+10/-50~+26
Detector type			InGaAs
Uncertainty (dB)			±0.2(5%)
Calibration wavelength (nm)			850,980,1300,1310,1490,1550
Display precision (dB)			0.01
			<b>Light Source</b>
Output wavelength (nm)			1310/1550/650(other optionl)
Measuring Range(dBm)			-30dBm~-23dBm
Accuracy			±10 nW(5%)
SM Output Power(dBm)			>= -2dBm
MM Output Power(dBm)			>= -20dBm
			<b>Light Source</b>
Output Power mw			1,5,10,20,30(optionl)
			<b>General Specification</b>
communication			RS232
Operating Temperature			-10~+60
Storage Temperature			-25~+70
Battery Operating Time			>15h
Display			2.4TFT LCD
Dimension (mm)			190*100*48
Power Supply			Li battery (9V)
Weight g			280

# Optical Variable Attenuator

## HYTT-VA3301

### » Introduction

HYTT-VA3301 handheld optical variable attenuator is used for continuously variable optical signal attenuation. As the attenuator is used in the laser system for the on-line testing, therefore HYTT-VA3301 can be used in the digital system of communication devices (such as: PHD, SDH) and also in the system of adopting analog modulation (CATV)

### » Application

- Telecom Maintenance
- CATV Maintenance
- Comprehensive cable construction system
- Optical instruments research and development
- Optical communication education and lab testing
- Other optical project

### » Features

- Stepwise attenuating by circumgyrated dial: attenuating step 0.05dB
- Provide with the function of displaying dB and dBm attenuating value
- Alternative function of 10 minutes Auto-off without operation
- After off the instruments, the system will have the memorizing of the attenuating value and the attenuating step, in order to restore the system back to the previous shut down state when open the instruments next time



### » Technical Data

Model	Model A	Model B
Attenuation range(dB)	0 ~ 30	0 ~ 60
Uncertainty	±5%	
Working temperature	-10°C~60°C	
Storage temperature	-25°C~70°C	
Auto turn off time(min)	10	
Continue working time	More than 48 hours	
Power	Rechargeable Li battery	

# Optical Power Meters

## HYTT-PM300/500

### » Introduction

HYTT-PM300/500 Handheld optical power meter is a compact and an easy-to-use testing instrument for optical fiber networks, which can be used for absolute optical power measurements as well as for relative loss measurements in optical fibers. It features ingenious appearance, wide range of power measurement, high accuracy and user self-calibration function with high performance-to-price ratio.

### » Features

- User self calibration function
- Comfortable LCD display and optional backlight LCD display supports
- night operation
- Power measurements in dBm or mw and insertion loss in dB
- Low battery consumption, more than 240 hours continual operation time
- For three 1.5V alkaline batteries
- Optional 10 minutes Auto-off function



### » Specifications

Type	HYTT-PM300A	HYTT-PM300B	HYTT-PM500A	HYTT-PM500B
Wavelength(nm)	(800nm to 1700nm )			
Detector type	InGaAs			
Detector Size	0.3mm		Φ1.0mm(1.5mm,2mm can be optional)	
Measurement Range (dBm)	-70~+3	-50~+26	-70~+3	-50~+26
Uncertainty(dB)	±5%			
Calibrated Wavelength(nm)	850, 980, 1300, 1310, 1490, 1550, 1650 (more calibrated wavelength can be optional)			
Resolution(dB)	Linear 0.1% or Non-linear 0.01dBm		Linear 0.1% or Non-linear 0.01dBm	
Optical Connector	FC/ Universal 2.5mm adaptor (FC,SC,ST interchangeable connector can be optional)			
Power Supply	Alkaline Battery(3 AA 1.5V batteries)			
Battery Operating Time	240 h with 1.5V Battery(3)			
Operation Temperature(°C)	-10~+60			
Storage Temperature(°C)	-25~+70			
Relative Humidity	0 to 95% (non-condensing)			
Dimension(mm)	172*82*33			
Weight(Kg)	0.31			



## Pentype Visual Fault Locator

# HYTTV3105

### » Introduction

The HYTT-V3105(1mw/5mw/10mw/20mw/30mw)is specially designed for field personnel who need an efficient and economical tool for fiber tracing, fiber routing and continuity checking in an optical network during and after installation. It includes:Finding the breakpoint, poor connections, bending or cracking in fiber optic cables.Finding the faults of OTDR



### » Key Feature

- 2.5mm universal connector
- Operates either in CW or Pulsed
- Constant output power
- Lower Battery warning
- Long battery life (up to 60 hours)
- Crash-proof and dust-proof design for laser head
- Laser case ground design prevents ESD damage
- Burning testing to ensure the reliability.
- Portable and rugged, easy to use
- Guarantee to CE standards include EMC, EMI, ROHS

### » Specifications

Type	HYTT-V3105 Pen-type Visual Fault Finder
Central Wavelength	650nm+-10nm (635nm can be required on request)
Emitter Type	FP-LD
Output Power	Optional choice for 1mw, 5mw,10mw 20mw 30mw on actual needs
Optical Connector	2.5mm universal connector For 1.25mm connectors, FC (Male)-LC (Female) convertor can be optional on customer requests
Operating Model	Both CW and Pulse available
Pulse Frequency	2~3Hz
Power Supply	2 AAalkaline batteries
Battery Operating Time	60 hours
Operating Temperature	-10~+45 (oC)
Storage Temperature	-40~+70 (oC)
Dimension (mm)	15X180
Weight	120g(Without battery)

Remark: Colors can be customized on request when meets certain qty!

Standard Packages

MODEL	INCLUDES
HYTT-V3105	Main Unit (Original color), 2pcsAlkaline battery, User Manual, Cotton swabs and Soft Carrying case.

## Optical Fiber Identifier

# HYTT-ID3306

### » Introduction

can quickly identify the direction of transmitted fiber and display the relative core power without any damages to the bended fiber. When the traffic is present, the intermittently audible tone is activated.

The WF3306B optical fiber identifier also recognize the modulation like,270Hz, 1kHz and 2kHz .When they are used to detect the frequency, the continuously audible tone is activated.

There are four adapter heads available: Ø0.25, Ø0.9, Ø2.0 and Ø3.0. The WF3306B optical fiber identifier is powered by a 9V alkaline battery.

### » Specifications

Type	HYTT- ID3306	
Identified Wavelength Range	800-1700 nm	
Identified Signal Type	CW, 270Hz+5%, 1kHz+5%,2kHz+5%	
Detector Type	Ø1mm InGaAs 2pcs	
Adapter Type	Ø0.25 (Applicable for Bare Fiber)	
	Ø0.9 Ø2.0 Ø3.0	
Signal Direction	Left & Right LED	
Singe Direction Test Range (dBm, CW/0.9mm bare fiber)	-46~10(1310nm) -50~10(1550nm)	
Signal Power Test Range (dBm, CW/0.9mm bare fiber)	-50~+10	
Signal Frequency Display (Hz)	270, 1k, 2k	
Frequency Test Range (dBm, Average Value)	Ø0.9, Ø2.0, Ø3.0	-30~0 (270Hz, 1KHz)
		-25~0 (2KHz)
	Ø0.25	-25~0 (1KHz,2KHz) -20~0 (2KHz)
Insertion Loss(dB, Typical Value)	0.8 (1310nm)	
	2.5 (1550nm)	
Alkaline Battery(V)	9	
Dimension (mm)	196X30.5X27	
Weight (g)	200	



Standard Packages

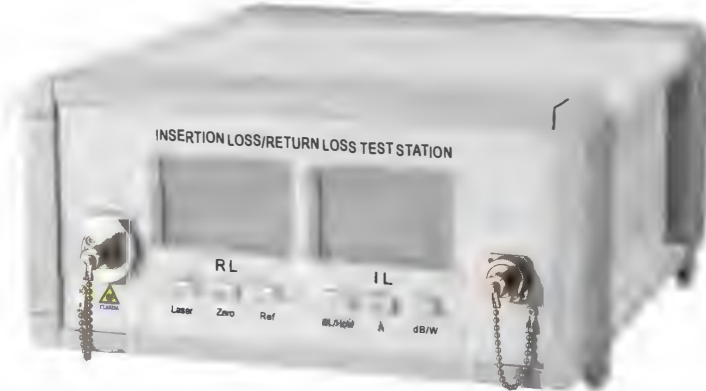
MODEL	INCLUDES
HYTT-ID3306	HYTT- ID3306 Optical Fiber Identifier, 4pcs adapter heads, Sunshade, Alkaline battery, User Manual, Cotton Stick and Soft Carrying case



## HYTT-B3307

### » Description

HYTT-B3307 Insertion Loss/Return Loss Test Station is a high performance loss test station that is designed specially for Optical Passive Components production Test and Lab Test. It combines three different working modes as a return loss meter, optical power and loss meter and a stable laser source in one test station.



### » Specifications

Model	HYTT-B3307
<b>Optical Return Loss Test</b>	
Wavelength	1310/1550nm
Optic Connector	FC/APC
Return Loss measurement Range	0 ~ 75dB
Calibrated wavelength	850/1300/1310/1550nm
Output Stability of laser source	0.05dB(1 hour/25)
Measurement accuracy	0.25dB
Resolution	0.01dB
<b>Optical Power and Loss Test</b>	
Wavelength Range	800~1700nm
Calibrated wavelength	850/1300/1310/1550nm, more other wavelengths can be optional
Optic Connector	Interchangeable FC/SC/ST/2.5mm Universal/1.25mm adaptors
Photo detector	InGaAs
Display modes	dBm/dB/xW
Measurement range	+3 ~ -80 dBm
Resolution	Non-linear 0.001dB Linear 0.001nw/μW/mW
Measurement accuracy	0.25dB
<b>Other Specification</b>	
Communication Port	USB
Power Supply	AC 90-260V,5060Hz
Operation Temperature	-5+55
Storage Temperature	-25+70
Dimensions	300X260X120mm
Weight(kg)	3

## HYTT-S110/S110D

### » Features

- A test instrument applicable for the maintenance of CATV ( Analog, Digital measurement, TILT ) system;
- Compact, light-weight, easy to carry;
- With dual-channel measurement display, it is convenient and pragmatic;
- Able to measure MER, BER Signal Level, Channel Power, V/A, C/N, FM, Trunk Voltage
- Channel and single frequency mode



### » Specifications

Model No	HYTT-S110	RYS110D
<b>Frequency / channel</b>		
Frequency scope	47~870MHz	5~870MHz
Channel	U.S. Standard Channel USA STD-CATV U.S. digital standard channels USA STD-CATV	
Frequency accuracy	+50 * 10E-6 (20 oC +5 oC)	
<b>Level measurement</b>		
Measuring range:	30dBuV ~ 120 dBuV	
Measurement accuracy	+2dB (20 oC +5oC)	
Resolution	0.5dB	
<b>Carrier-to-noise ratio measurement</b>		
Measuring range	20dB ~ 50 dB	
Signal input range	≥ 85dBuV	
Measurement accuracy	+ 3dB (20oC +5oC)	
Channel scan	150	
<b>Voltage measurement</b>		
Input range	1 ~ 100V (AC / DC)	
Measurement accuracy	+2V	
Resolution	1V	
<b>Power supply</b>		
battery	7.2V/1500mAH rechargeable battery	
AC Supply:	AC 90V-220V 50Hz-60Hz	
Working time	6h	
Charging time	3h	

## Signal Level Meters

### RY-S200/S200D

#### » Introduction

This product applies to the need of the television and cable television engineering installation and detection, it is the high-performance surveying instrument specially designed for the cable television technical personnel.

The instrument adopts the all-number display, the readings on the measuring instrument are clear and precise, and owing to the introduction of the micro processing unit, therefore, it makes its functions stronger, the precision higher, operation more flexible and convenient. The large screen figure monitor is very convenient to measure the main technical targets of CATV system.

#### » Features

1. A test instrument applicable for the maintenance of CATV (Analog, Digital measurement, TILT) system;
2. Compact, light-weight, easy to carry;
3. With dual-channel measurement display, it is convenient and pragmatic;
4. Able to measure MER, BER Signal Level, Channel Power, V/A, C/N, FM, Trunk Voltage
5. Channel and single frequency mode



#### » Specifications

Model	RY-S200	RY-S200D
<b>Digital DVB</b>		
Frequency scope	47~870MHz	5~870MHz
Modulation	DVB-C/ITU-T	
Support	64QAM/256QAM	
Digital average power	30dBuV ~ 110dBuV	
precision	+2dB	
Symbol rate	1MS/S-7 MS/S	
Modulate error rate(MER)	22dB ~ 39dB	
Bit error rate(BER)	RS 1E-3~1E-9	
<b>Analog TV</b>		
Frequency scope	46/5~870MHz	
Level	20dBuV ~ 120dBuV	
precision	+1.5dB	
Channel scan	150	
<b>Power supply</b>		
battery	7.2V/1500mAH rechargeable battery	
AC Supply:	AC 90V-220V 50Hz-60Hz	
Working time	6h	
Charging time	3h	

## QAM Signal Level Meters

### RY-S1127D/S1127DQ

#### » Introduction

The RY-S1127D is designed to provide features which are most widely used and favored by professionals in CATV industry at the least cost. It can be used to measure accurately the Analogue channels, Digital channels efficiently and effectively with high accuracy rate. Mainly it supports C/N, level, channel power measurement, voltmeter function, spectrum analysis and so on. Overall, its functions are easy to use and can be used in a wide range of applications.

#### » Features

- Accurate QAM testing : digital average power , MER, BER
- Support multiple DVB mode: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
- Single channel / Frequency simulated power levels testing .
- Video and audio signal power levels testing .
- V / A testing. Show the frequency of video and audio, field intensity and Power level difference simultaneously .
- C/N testing . Slope testing
- QAM View includes BER, MER, and constellation

#### » Specifications

Model No	RY-S1127D	RYS1127DQ
Digital DVB		
Frequency scope	5~870MHz	5~870MHz
Modulation	<b>DVB-C/ITU-T</b>	
Support	64QAM/128QAM	64QAM/128QAM/256QAM
Digital average power	30dBuV ~ 110dBuV	
Precision	+2dB	
Symbol rate	1MS/S-7 MS/S	
Modulate error rate(MER)	22dB ~ 39dB	
Bit error rate(BER)	RS 1E-3~1E-9	
<b>Analog TV</b>		
Frequency scope	5~870MHz	
Level	20dBuV ~ 120dBuV	
Precision	+1.5dB	
Channel scan	150	
Spectrum / Frequency	Bandwidth 2.5MHz can be se	
Other Functions	Spect, Scan, Tilt, C/N, Voltage and so on	
<b>Power supply</b>		
Battery	7.2V/1500mAH rechargeable battery	
AC Supply:	AC 90V-220V 50Hz-60Hz	
Working time	6h	
Charging time	3h	





## HYTTS1130DQ



Signal Level Meters correlation table

Model No	Constellation	Main Parameter
HYTT-S110/S110D	No	Double channel, A/V, C/N, Average Power, Trunk line Voltage,
HYTT-S128/S128D	No	Spectrum, Channel Power, Tilt, A/V, C/N, Average Power, Trunk line Voltage,
HYTT-S200/200D	No	MER, BER, Tilt, A/V, C/N, Average Power, Trunk line Voltage,
HYTT-S1127/HYTT-S1127DQ	Yes	Spectrum, MER, BER, Tilt, Channel Power, A/V, C/N, Average Power, Trunk line Voltage
HYTT-S1130/R1130DQ	Yes	Advanced spectrum, Full automatic scan, MER, BER, Tilt, V/A, C/N, Average Power, Channel Power, Trunk line Voltage, Threshold, Alarms

### » Specifications

- Supports Annex A (16,32,64,128 and 256) QAM and Annex B (64 and 256) QAM modes
- Leakage measurement in the spectrum mode or frequency mode if the exact frequency of the leakage is known
- All channel range from channel T7 to 135 (5860 MHz)
- Multi-function digital or analog signal analysis includes all pertinent channel and system-wide information
- Large, easy-to-read display provides quick glance capability in dimly lit environments
- High accuracy for all individual channel and system parameters including: spectrum, scan, tilt, carrier-to-noise, carrier level and line voltage measurements
- Tilt measurement for simplified system balancing
- MER, BER, Test constellation graphic display for accurate digital signal analysis
- Programmable power shut-off extends time between charges
- High impact plastic case and leatherette-vinyl case protect unit during field use

## HYTT-S1130D/S1130DQ

### » Specifications

<b>-FREQUENCY/ CHANNEL-</b>	
Frequency Range	5MHz ~ 870MHz
Channel Range	T7 to CATV 135
Frequency Resolution	10 KHz
Measurement Bandwidth	280 KHz
<b>-MODULATION-</b>	
QAM Annex (A)	16, 32, 64, 128 and 256
QAM Annex (B)	64 and 256
Symbol Rate	1 to 7Mbps
Analog CATV	AM, FM
Bandwidth	1 MHz to 9.9 MHz
<b>-LEVEL MEASUREMENT-</b>	
Range	-35dBmV ~ 60dBmV
Accuracy	±2dB
Resolution	0.1 dB
Scan	peak value demodulation
Input Impedance	75Ω
<b>-CARRIER-NOISE RATIO - C/N-</b>	
Input Range	10dBmV 45dBmV
Accuracy	±2 dBmV
<b>- VOLTAGE MEASUREMENT-</b>	
Input Range	10 ~ 80V (AC/DC)
Accuracy	±2V
Resolution	0.1V
<b>Technical indicators above @ 25°C</b>	

### » Specifications

<b>-POWER-</b>	
DC Supply	7.2V rechargeable battery
AC Supply	AC110V/60Hz ±10%
Working Time	>4hrs (full charged battery)
Charging Time	≤8hrs
<b>-OTHER-</b>	
Dimensions	215mm x 3mm x 8mm
Net Weight	< 550g
Temperature	-10°C ~ 45 °C
Display	320 X 240 TFT LCD
Audio Output	Built-in speaker

## HYTTR2000/R3000/D5000

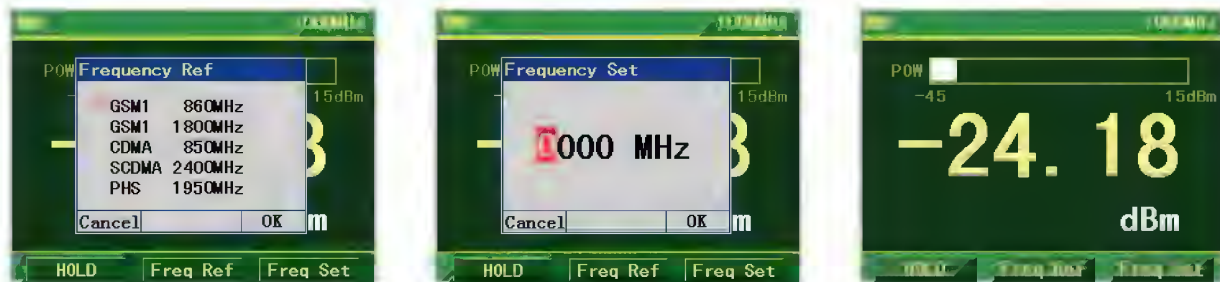


### Introduction

The product is a High-frequency power meter having good performance and carried conveniently, especially designed for measuring complex waveform. The application of measuring Digital-communication signal such as GSM, CDMA, PHS, resolves effectively the problem of measuring complex waveform's power and amplitude, which makes the meter's reliability higher. The human design style used on operating methods and display accords with the operator's habit. The product's low price makes the connection with dear equipments little stronger, and is fit for measure and maintenance in wireless communication.

### Display interface

Calibration parameters of frequency range in communication used frequently are considered when designed, which makes your work simply.



### Specifications

<b>-Absorb mode parameter-</b>	
Input channel	single channel
Dynamic range	>40dB
Measure mode	Manual, Auto(Recommend)
Frequency range	2-2000MHz, 2-3000MHz
Amplitude range	40dBm - +5dBm -10dBm - +35dBm (30dB) 0dBm - +45dBm (40dB)
Resolution	0.01dB
Measure precision	±0.3dB
Input signal	GSM, CDMA, PHS and so on
Input impedance	50Ohm
<b>-Through mode parameter-</b>	
Frequency range	800-2500MHz
Amplitude range	+13dBm - +53dBm
50Ohm standing -wave ratio in reference	<1.1
Insert wastage	<0.4dB
Input impedance	50Ohm
Probe wave	<1.2
<b>-Others-</b>	
Display screen	TFT LCD(320*240)
Battery	7.2V lithium battery
Work time	average>24 hours ,series>12 hours
Power adapter	100-240V/0.8A 50-60Hz
Charge time	about 5 hours
Volume(mm)	240 (L)100*(W)50*(H)
Weight(Kg)	0.7
Storage temperature	-10--+40°C
Storage environment	put in dry condition

### Order Information

Name	Model	Describe
Portable Power Meter	HYTT-R50 (50MHz)	Power range: -45dBm--+15dBm Auto measure
Portable Power Meter	HYTT-R2000 (2~2000MHz) HYTT-3000 (2~3000MHz)	Manual calibration, accuracy is +2dB; Internal rechargeable battery, last for 12 hours External power sensor, make the measure easier Optional attenuator can make high power measure Table model fit laboratory environments use
Directional Power Meter	RY5000D- (800~2500MHz)	Make power and standing wave measurement Power range: 25mW~200W.



## HYTT-E4100

### » Introduction

HYTT-E4100 is a multi-functional and full-featured digital transmission system test device, designed for the installation test, engineering check and acceptance, daily maintenance of digital networks, mainly performing channel test, alarm analysis, fault finding and signaling analysis.

### » Features

- Handheld design and easy-to-use; High resolution backlit color TFT LCD screen
- Save/Recall of 7 user-defined setups and 7 sets of results
- Run and stop testing can be controlled automatically by timer
- Histograms analysis of alarm and error events

### » Functions

2M measurement

75Ω and 120Ω line interfaces

HDB3 and AMI line codes

Out-of-service 2Mb/s, N×64kb/s BER testing

In-service framed and unframed double-channel testing

"PCM imulator" mode testing

Frame data control and monitoring

Timeslot activity monitoring, FAS, N-FAS, TS16MFO analysis

Built-in 64kb/s tone channel listen capability

CAS and CCS signaling generation and monitoring

Extensive error and alarm generation

Level measurement

Frequency and offset measurement

Clock slip measurement

Up to 999ppm transmit clock deviation

Clock source: Internal, Interface or External 2M clock/signal



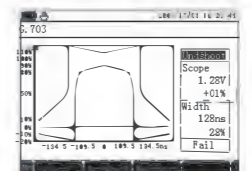
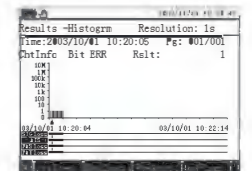
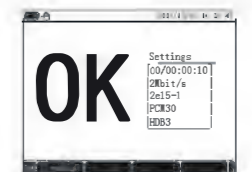
### » Accessories List

Item	Qts	Item	Qts
Tester	1	Certificate	1
BNC-L9 Test Cable	2	Warranty Card	1
PC Manager Software	1	Package	
AC Recharger	1		
Manual	1		

## HYTTE4300

### » Introduction

HYTT-E4300 series 2M/Datacom Transmission Analyzer is a multi-functional and full-featured digital transmission system test device for the installation test, engineering check and acceptance, daily maintenance of digital networks, mainly performing channel test, alarm analysis, fault finding and signaling analysis. In addition, this instrument further provides various protocol converters with one-way and bi-directional bit error test function. These capabilities make it ideal for field use.



### » Main Features

- Handheld design and easy-to-use; High resolution backlit large color TFT LCD screen
- Save/Recall of up to 7 user-defined setups and 99 sets of results
- Test results uploaded, conserved and printed by PC Manager software
- Run and stop testing can be controlled automatically by timer
- Histograms analysis of alarm and error events
- Upgradeable software via an integrated RS232C interface

### » Specifications

Item	HYTT-E4300A	HYTT-E4300C	HYTT-E4300E
E1 Measurement	√	√	√
Datacom Measurement	×	√	√
Audio/Listen	√	√	√
Frequency Deviation	×	√	√
Pulse Mask	×	√	√
Co directional 64K	×	Optional	Optional
Ethernet	×	Optional	√
Jitter	×	Optional	Optional
Frame Relay	×	×	√
AC Power Adapter	AC220V 50Hz/DC 9V 1A		
Rechargeable Batteries	5×1.2V AA NiMH batteries		
Operating/Storage Temperature	0°C ~ 50°C/-30 ~ +70°C		
Humidity	5%~95% non-condensing		
Dimensions/Weight	200×160×42mm/2kg		

# Optical Fiber Cleaver

## HYTT-C500

### » Specifications

Bare fiber diameter	0.25mm~0.9mm
Outercoat diameter	125µm
Fiber type	Single tube fiber and Ribbon fiber (exchangeable)
Cleaved length	9~16mm(φ0.25) 10~16(φ0.9)
Cleaved angle	≤0.5°
blade life	36000cleaves
Mode	Semiautomatic
Dimension	59mm(W)*55mm(D)*49mm(H)
Weight	255g



## HYTT-TK26



Optical Fiber Tool Kit

## HYTT-F10



FTTH Tools Bag

# Product

### » Optical Test Instruments



### » Broadcasting & TV Test Instruments



### » Wireless Communications Test Equipment



### » Telecom Data Test Instruments

