БАТЛАВ: ЕРӨНХИЙ ИНЖЕНЕР Б.ЭРХЭМЗАЯА

Шилэн кабелийн залгааны машин болон хэмжүүрийн багажны техникийн тодорхойлолт

Шилэн кабелийн залгааны машины техникийн үзүүлэлт

Fibre Alignment Method		Active core alignment
Fibre Count Can Be Spliced		Single fibre
Applicable Fibre	Fibre Type	Single mode optical fibre
		Multi mode optical fibre
	Cladding dia.	80 to 150μm
Applicable Coating	Sheath clamp	Coating dia. : Max. 3000μm
		Cleave length : 5 to 16mm *1
Fibre Splice Performance	Splice loss *2	ITU-T G.652 : Avg. 0.02dB
		ITU-T G.651 : Avg. 0.01dB
		ITU-T G.653 : Avg. 0.04dB
		ITU-T G.654 : Avg. 0.04dB
		ITU-T G.655 : Avg. 0.04dB
		ITU-T G.657 : Avg. 0.02dB
	Splice time *3	SM FAST mode : Avg. 7 to 9sec.
		AUTO mode : Avg. 14 to 16sec.
Applicable Protection Sleeve	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 66mm
	Sleeve dia.	Max. 6.0mm before shrinking
Sleeve Heat Performance	Heat time *4	60mm slim mode : Avg. 7 to 9sec.
		60mm mode : Avg. 10 to 13sec
Fibre Tensile Test Force		Approx. 2.0N
Electrode Life *5		Approx. 5000 splices
Physical Description	Width	Approx.170mm without projection
	Depth	Approx.173mm without projection
	Height	Approx.150mm without projection
	Weight	Approx. 2.8kg including battery
Environmental Condition	Temperature	Operate : -10 to 50 °C
		Storage : -40 to 80 °C
	Humidity	Operate : 0 to 95%RH non-condensing
		Storage : 0 to 95%RH non-condensing
	Altitude	Max. 5000m
AC Adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1.5A
Battery Pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V, 6380mAh
	Capacity *6	Approx. 300 splice and heat cycles
	Temperature	Recharge : 0 to 40 °C
		Storage : -20 to 30 °C

	Battery life *7	Approx. 500 recharge cycles
Display	LCD Monitor	TFT 4.9 inches with touch screen
	Magnification	200 to 320x
Illumination	V-grooves	LED lamp
Interface	PC	USB2.0 Mini B type
	External LED lamp	USB2.0 A type Approx. DC5V, 500mA
	Ribbon stripper	Mini DIN 6pin DC12V, Max. 1A
	Wireless *8	Bluetooth 4.1 LE
Data Storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	20,000 splices
	Splice image	100 images
Screw Hole For Tripod		1/4-20UNC
Other Features	Automatic functions	Splice mode selected using fibre type analysis
		Fusion power calibration
		Wind protector : open and close
		Sheath clamp : open
		Heater lid : open and close
		Heater clamp : open and close
	Reference guide	Video and PDF file stored in splicer
	Sheath clamp	Easy sleeve positioning clamp
	Electrode	Replaceable without tool

DESCRIPTION	MODEL NO.	QTY
Core Alignment Fusion Splicer	90S+	1pc
(1) Battery Pack*	BTR-15	2pc
(2) AC Adapter	ADC-20	1pc
(3) AC Power Cord	ACC-14, 15, 16 17 or 18	1pc
(4) USB Cable	USB-01	1pc
(5) Fusion Splicer Strap	ST-02	1pc
(6) Electrodes (spare)	ELCT2-16B	2 pair
(7) Fiber Holder Set Plate	SP-03	1 pair
(8) Carrying Case	CC-39	1pc
(9) Work Tray Left	WT-09L	1pc
(10) Work Tray Right	WT-09R	1pc
(11) Work Tray J-Plate	JP-09	1pc
(12) Tripod Screw	TS-03	2pc
(13) Carrying Case Strap	ST-03	1pc
(14) Alcohol Dispenser	AP-02	1pc
(15) Quick Reference Guide	QRG-02-E, C or J	1pc
Single Fiber Stripper	SS03 or SS01	1pc
Optical Fiber Cleaver	CT50	1pc
(1) Fiber Scrap Collector	FDB-05	1pc
(2) Fiber Setting Plate	AD-10-M24	1pc
(3) Case (for Cleaver)	CC-37	1pc
(4) Hexagonal Wrench	HEX-01	1pc

Шилэн кабель хэмжих багаж (OTDR)-ийн техникийн үзүүлэлт

Items		Specifications
Display *1		8.4-inch color TFT LCD (Resolution: 800 × 600, Multi-touch capacitive touchscreen)
Electrical interface		Unit interface × 1, Module interface × 1, USB 2.0 × 3 [Type-A × 2, Type-B (Mini-B) × 1] *2, Ethernet (10/100BASE-T, Option) × 1, SD card slot × 1
Remote control		USB Type-B (Mini-B), Ethernet (TCP/IP)
Data storage	Storage	Internal storage: ≥1000 waveforms, External storage: USB memory, SD memory card
	File format	Write: SOR, CSV, SET, BMP, JPG, CFG, PDF, SMP Read: SOR, SET, SMP
Dimensions		Approx. 287 mm (W) × 210 mm (H) × 80 mm (D) (excluding projections)
Weight		Approx. 2.2 kg (including internal battery and protectors, excluding OTDR unit and options)
OTDR functions	Minimum readout resolution	Horizontal axis: 1 cm, Vertical axis: 0.001 dB
	Group refractive index	1.30000 to 1.79999 (in 0.00001 steps)
	Distance unit	m, km, mile, kf
	Measurement	Distance, Loss, Return loss, Section Return loss, dB/km
	Analysis	Multi Trace Analysis, Two-Way Trace Analysis, Difference Trace Analysis, Section Analysis, Macro Bending Analysis
	Other functions	Multi Fiber Project, Fault Locator, Work Completion Notice, File Report, Auto Event Search, Pass/Fail Judgment, Fiber Surface Test (Option), Schedule Measurement (Option), Smart Mapper (Option)

Items Model	AQ7283K
Wavelength (nm)	1310±25/1490±25/ 1550±25/1625±25
Optional wavelength (nm) (/10 N)	—
Number of optical port - 1	
Applicable fiber	SM (ITU-T G.652)
Distance range (km) - 400	
Pulse width (ns) 3 10 20 30 50 100 200 300 500 1000 2000 5000 10000 20000	
Event dead zone *10 (m) 0.6	
Attenuation dead zone *11 (m)	3.5/4/4/4
Dynamic range at 20 μs pulse width *12 (dB)	42/38/40/40
Dynamic range at 1 μs pulse width *13 (dB)	—
Loss measurement accuracy (dB/dB) *14	±0.03
Loss measurement repeatability (dB) *15	—

Attenuation coefficient accuracy (dB/km) *15	—
Attenuation coefficient repeatability (dB) *15	—

Optical connector : Universal adapter SC, FC, LC angled PC

Laser class: 1M*27 or 1*28

Maximum optical pulse output power

Power Checker (Integrated optical power meter) (/PC)	Wavelength setting	1310/1490/1550/1625/1650 nm
	Power range *18	−50 to −5 dBm
	Measurement accuracy *19	±0.5 dB
	Optical input port	OTDR port
Stabilized Light Source (/SLS)	Wavelength (nm)	1310±25/1490±25/ 1550±25/1625±25
	Optical output power	−3 dBm ±1 dB
	Output power stability *20 (dB)	±0.05/±0.15/±0.05/ ±0.15
	Modulation mode	CW, 270 Hz, 1 kHz, 2 kHz
	Optical output port	OTDR port
	Laser class	1M*27 OR 1*28

Items		Specifications
Environmental conditions	Operating temperature	−10 to 50°C (0 to 40°C when AC adapter is being used. 0 to 35°C when the battery is be charged)
	Storage temperature	−20 to 60°C
	Humidity	0 to 90% RH (20 to 90% with 739874 AC adapter, non-condensing)
	Altitude	4000 m
Power requirements		100 to 240 VAC, 50/60 Hz (AC adapter)
Battery	Type	Lithium-ion
	Operating time *3	15 hours (Telcordia GR-196-CORE Issue2 2010), 10 hours *4 (Continuous measurement)
	Recharge time *3	6 hours
EMC *5	Emission	EN 61326-1 Class A, EN 55011 Class A Group1
	Immunity	EN 61326-1 Table2
Safety *5		EN 61010-1
	Laser	EN 60825-1: 2014+A11: 2021, IEC 60825-1: 2014, GB/T 7247.1-2024 Class 1 *7 EN 60825-1: 2014+A11: 2021, IEC 60825-1: 2014, GB/T 7247.1-2024 Class 3R *6, *8 FDA 21CFR1040.10 *9

Accessories (Sold separately)

Models	Names	Descriptions
SU2005A-SCC	Universal Adapter (SC)	for OTDR unit (Shared by -USC & -ASC)
SU2005A-FCC	Universal Adapter (FC)	for OTDR unit
SU2005A-LCC	Universal Adapter (LC)	for OTDR unit
735480-SCC	Universal Adapter (SC)	for OPM module*1
735480-FCC	Universal Adapter (FC)	for OPM module*1
735481-LMC	Ferrule Adapter (1.25 dia.)	for OPM module*1
735481-SFC	Ferrule Adapter (2.5 dia.)	for OPM module*1
735483-LSS	LCSC Conversion Adapter	for OTDR unit*2
739860	Soft Carring Case	
739883	Battery Pack	
B8070CY	Shoulder Belt	
AQ3550-112-SA-SCC	AQ3550 Optical Switch Box (SC)	for SM

*1 All universal adapters of OPM module are Angled-PC compatible.

*2 Available only if the OTDR port is SC connector.

Additional option license

Models	Suffix codes	Descriptions
735050		Additional option license for AQ7280
	-MNT	Monitoring function
	-SMP	Smart Mapper function
	-FST	Fiber Surface Test function

Application software

Models	Suffix codes	Descriptions
AQ7933		AQ7933 Emulation Software
	-SP01	Download version (1-license)
	-SC01	Package version (1-license with CD)
735071		AQ7940 Optical Fiber Monitoring Software
	-HE	English/Japanese

Хянасан:

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