FTS-B534

Splice Data Explorer 2 User Manual

Issue 7



Contents

1. Intro	duction	2
1.1	PC Requirements	2
1.2	Application Install	
2. Func	tions	5
2.1	Remote Control	
2.1.1	Connecting Fusion Splicer	
2.1.2	Control Buttons	
2.1.3	Capture and Zoom	6
	Fusion Program	
2.2.1		
2.2.2		9
	All Data Save File	
2.2.4	Save File	10
2.3	Heater program	
2.3.1	Heater Program List	
2.3.2		12
	All Data Save File	
2.3.4	Save File	13
2.4	Splice History	14
2.4.1	History List	14
2.4.2	Splice Data	14
2.4.3	Save Selected Data	14
2.4.4	Save Batch Data	15
2.4.5	Save Single Data	15
2.4.6	Print	15
	Arc Check History	
2.5.1		16
	Arc Check Data	
2.5.3	Save Batch Data	
2.5.4		
2.5.5	Print	17
2.6	Captured Images	18
2.6.1		18
2.6.2	Save File	18
2.7	Failure Data history	19
2.7.1	History List	19
2.7.2	Failure Data	19
2.7.3	Save Batch Data	20
2.7.4	Save Single Data	20
2.7.5	Print	20
2.8	Software Update	21
2.8.1	Update	21
2.9	Remote Maintenance	22
2.9.1		22
2.9.2	 Chat	

1. Introduction

This manual is described about Splice Data Explorer2 to control FITEL S179 series / S185 series / S124 series.

This application does not support S178/S153/S123/NINJA series. Please use previous Splice Data Explorer to if you have S178/S153/S123/NINJA series.

1.1 PC Requirements

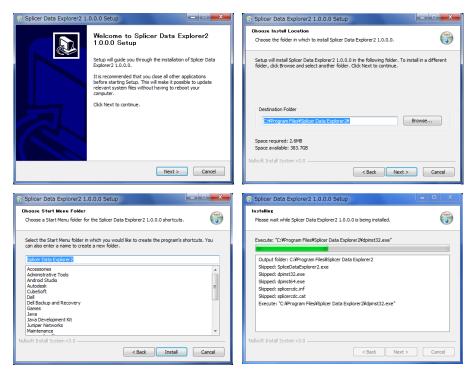
This application runs in the following environment.

OS	Microsoft Windows 10 (32/64bit)
.Net Framework	Version 3.5 SP1
Screen Resolution	1024 x 768 pixel or above
USB	2.0 / 3.0 Port

If the application does not start, please install .Net Framework3.5.

1.2 Application Install

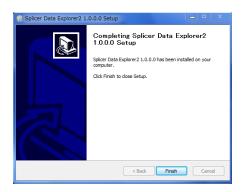
- 1. Execute SDE2Installer.exe to install Splice Data Explorer 2.
- 2. When the setup starts, click $[Next(N)>]\rightarrow [Next(N)>]\rightarrow [Install].$



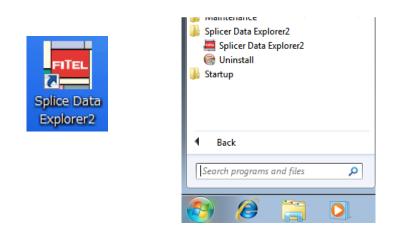
 Next step is Installation of the device driver. Click [Next(N)>]→ [Finish]. If the driver already has been installed, you can select [Cancel].



4. After installation click [Finish].



5. To start the application, click the icon on the desktop or select the program from the start menu.



6. The device driver is installed automatically when the fusion splicer is connected to PC.

2.1 Remote Control

The remote control function can control the fusion splicer and display the screen of the fusion splicer.

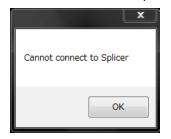


2.1.1 Connecting Fusion Splicer

When the fusion splice is connected to PC and turn on the power, the message [OFFLINE] becomes [ONLINE] in the bottom left of the screen.



The screen is not change by clicking the menu button when the fusion splicer is not connected. If the following message is displayed, please reconnect the fusion splicer to another USB port.



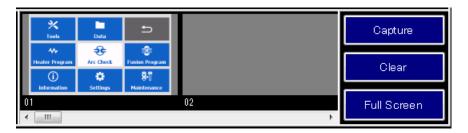
2.1.2 Control Buttons

Clicking this button perform the same operation as when you press the key of the fusion splicer.



2.1.3 Capture and Zoom

The current screen is captured by clicking [Capture]. Number of screen to be captured is up to 20. After 20 screens, the first captured image is overwritten.



Right clicking on the captured image, you can save the file and copy to the clip board. In the case of saving the file, the save dialog is displayed and you can select image type from PNG/BMP/GIF/JPG.

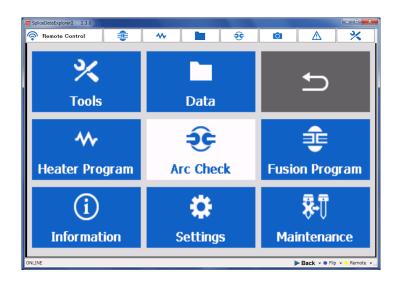
Save As	
Сору	

The captured image can paste to the Microsoft Excel and PowerPoint by drag and drop.

The entire captured images are cleared by clicking [Clear].



The screen image is zoomed by clicking [Full Screen]. In the full screen mode, because the control buttons are not displayed, use the key of the fusion splicer. The screen returns to original size by clicking [Back].

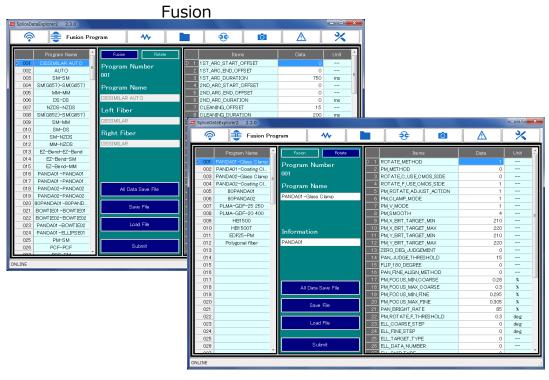


2.2 Fusion Program

The fusion program is displayed, the parameter can be edited.

ি	手 Fusion Pr	ogram			ॐ	Ó		<u>×</u>
	Program Name	A			Items	;	Data	Unit
▶ 001	AUTO	D	n Number	D 1	1ST_ARC_START_P	OWER	100	
002	SM AUTO	001	ir number	2	1ST_ARC_END_POV	VER	100	
003	SM-SM	001		3	1ST_ARC_DURATIC	IN	1000	ms
004	SM(657)-SM(657)	Program	n Name	4	2ND_ARC_START_F	OWER	0	
005	MM-MM			5	2ND_ARC_END_POV	VER	0	
006	NZDS-NZDS	AUTO		6	2ND_ARC_DURATIO	DN	0	ms
007	SM(652)-SM(657)	Left Fit	vor	7	CLEANING_OFFSET		20	
008	SM-MM	Lettin		8	CLEANING_DURATI	ON .	200	ms
009	SM-NZDS			9	PRE_ARC_DURATIC	N	160	ms
010	NZDS-MM	Right F	ilian e	10	GAP		22	um
011	DS-DS	rugnu r	iber	11	Z_PUSH_TYPE		0	
012	TWRS-TWRS			12	Z_PUSH_LENGTH		15	um
013	LEAF-LEAF			13	Z_PULL_START_TIN	1E	0	ms
014	SM-DS			14	Z_PULL_LENGTH		0	um
015	SM-TWRS			15	PULSE_ON_TIME		0	ms
016	SM-LEAF			16	PULSE_OFF_TIME		0	ms
017	TWRS-LEAF			17	ATTENUATION		0	dB
018	ATTN-1310	AI	Data Save File	18	AXIS_OFFSET		0	um
019	ATTN-1550			19	ARC_CENTER_OFFS	BET	0	um
020	OFST-OFST		Save File	20	ALIGN_TYPE		0	
021	BBXS-BBXS		Gave The		AUT O_RE_ARC		0	
022	BBXS-SM			22	RE_ARC_NUMBER		0	
023	EZBD-EZBD		Load File	23	RE_ARC_DURATION	1	1000	ms
024	EZBD-SM				RE_ARC_INTERVAL		1000	ms
025	EZBD-AWFX			25	RE_ARC_POWER		100	
026	EZBD-CC		Submit		RE_ARC_PULSE_ON		0	

The rotate menu is displayed when connecting S185PM / PMLDF.



Rotate

2.2.1 Fusion Program List

List of fusion programs registered in the fusion splicer is displayed in the left side of the screen. Clicking the fusion program name, its parameters are displayed on the right side of the screen, and can be edited.

When the parameter is changed, the color of the program name is changed to make it easier to distinguish.

	Default Changed			Changed
	Program Name			Program Name
001	AUTO		001	AUTO
002	SM AUTO		002	SM AUTO

2.2.2 Edit Parameter

Program name, left fiber name, right fiber name, each parameter can be changed. When the parameter is changed, the color of the program name is changed. If the input value is invalid, the color is changed to red.

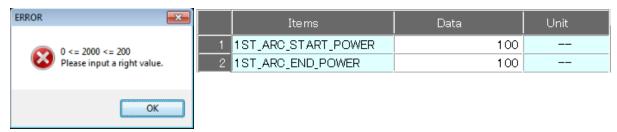
Default

	Items	Data	Unit
1	1ST_ARC_START_POWER	100	
2	1ST_ARC_END_POWER	100	

Changed

	Items	Data	Unit
1	1ST_ARC_START_POWER	1.01	
2	1ST_ARC_END_POWER	100	

Invalid Value



Changed parameters are applied by clicking [Submit]. If you have moved to another menu without submitting, changed parameters will be discarded.

2.2.3 All Data Save File

All fusion program stored in the fusion splicer can be saved to PC. This file is different from exported/imported file by the fusion splicer, mutual is not available. Only this application can send this file to the fusion splicer.

To send the file to fusion splicer, click the [Load File] button, select the file to send, and click the [Submit] button.

All fusion program in the destination become the same as in the copy source. Please note that the fusion program stored in only copy destination will disappear.

2.2.4 Save File

Currently displayed fusion program can be saved to PC. This file is the same as exported / imported file by the fusion splicer, mutual is available. To send the fusion program to fusion splicer, click the [Load File] button, select the fusion program to send, and click the [Submit] button.

2.3 Heater program

The heater program is displayed, the parameter can be edited.

ি	•	~	Y Heater Program		રુ	Ô		<u>×</u>
	Program Name	Â			Items		Data	Unit
▶ 001			Program Number	D 1	1ST_HEAT_TEMP_IN		240	degC
002	S922		001	2	1ST_HEAT_TEMP_OU	Л	0	degC
003	OTHER	=		3	1ST_HEAT_DURATIO	0N	10	sec
004	OTHER		Program Name	4	2ND_HEAT_TEMP_IN		0	degC
005	S921 POWER 250			5	2ND_HEAT_TEMP_O	JT	230	degC
006	S921 POWER 900		S921	6	2ND_HEAT_DURATIO	DN	10	sec
007	S922 POWER			7	PRE_HEAT_TEMP_IN		230	degC
008		-		8	PRE_HEAT_TEMP_OU	JT	0	degC
009	SMOUV	-	Information	9	PRE_HEAT_DURATIO	IN	0	sec
010	SMOUV-02	-	60MM	10	COOLING_TEMP		170	degC
011	SMOUV POWER	-	00MM	11	COOLING_DURATIO	N	30	sec
012	SMOUV-02 POWER	-		12	AUTO_START_HEAT	ER	1	
013	S928(20)	-		13	HEAT_TIMEOUT		60	sec
01.4	S928(25-35)	-		14	START_TEMP_IN		150	degC
015	OTHER	-		15	HIGH_EXTEND_A		-0.16	
016	CURL REMOVE	-		16	HIGH_EXTEND_A_INI	DEX	-3	
017	CONTINUOUS	-		17	HIGH_EXTEND_B		1.04	
018	CONTINUOUS	-	All Data Save File	18	HIGH_EXTEND_B_INI	DEX	0	
019	SOC	-		19	LOW_EXTEND_A		-1.71	
020	SOC TOUCH		Save File	20	LOW_EXTEND_A_INC	EX	-2	
021	SOC E2/Fuse		Save Hile	21	LOW_EXTEND_B		1.428	
022	S921 DC			22	LOW_EXTEND_B_IND)EX	0	
023			Load File	23	CONTINUOUS_MOD	E	0	
024	S921 Test	-		24	OFFSET_IN_SELECT		0	
025				25	BUZZER_TIMING		0	
026			Submit	26	1 ST_TEMP_IN_OFFSI	ET	0	degC
700		Ŧ	L	- 07	ACT TIME OUT OF	THE	0	

2.3.1 Heater Program List

List of heater programs registered in the fusion splicer is displayed in the left side of the screen. Clicking the fusion program name, its parameters are displayed on the right side of the screen, and can be edited.

When the parameter is changed, the color of the program name is changed to make it easier to distinguish.

Default				Chenged
	Program Name			Program Name
001	S921		001	S921
002	S922		002	S922

2.3.2 Edit parameter

Program name, information, each parameter can be changed. When the parameter is changed, the color of the program name is changed. If the input value is invalid, the color is changed to red.

	Default		
	Items	Data	Unit
1	1ST_HEAT_TEMP_IN	270	degC
2	1ST_HEAT_TEMP_OUT	260	degC

	Change	d	
	Items	Data	Unit
1	1ST_HEAT_TEMP_IN	271	degC
2	1ST_HEAT_TEMP_OUT	260	degC

Invalid Value

ERROR		Items	Data	Unit
0 <= 2000 <= 250	1	1ST_HEAT_TEMP_IN	270	degC
Please input a right value.	2	1ST_HEAT_TEMP_OUT	260	degC
ОК				

Changed parameters are applied by clicking [Submit]. If you have moved to another menu without submitting, changed parameters will be discarded.

2.3.3 All Data Save File

All heater program stored in the fusion splicer can be saved to PC. This file is different from exported/imported file by the fusion splicer, mutual is not available. Only this application can send this file to the fusion splicer.

To send the file to fusion splicer, click the [Load File] button, select the file to send, and click the [Submit] button.

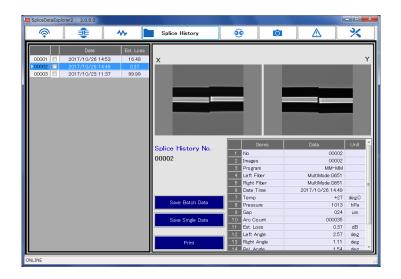
All heater program in the destination become the same as in the copy source. Please note that the heater program stored in only copy destination will disappear.

2.3.4 Save File

Currently displayed heater program can be saved to PC. This file is the same as exported / imported file by the fusion splicer, mutual is available. To send the heater program to fusion splicer, click the [Load File] button, select the heater program to send, and click the [Submit] button.

2.4 Splice History

The splice history data stored in the fusion splicer can be displayed, saved, and print.



2.4.1 History List

List of splice history is displayed in the left side of the screen. Clicking the date and time, its detailed information is displayed on the right side of the screen.

2.4.2 Splice Data

The images after splicing are displayed in the top right of the screen. The detailed information is displayed in the bottom right of the screen.

2.4.3 Save Selected Data

The selected data are saved in CSV format and the image is saved in PNG format. Fill the check box and click the [Save Batch Data] button.

2.4.4 Save Batch Data

This function outputs the specified range of the splice history data in CSV format. The range is set by the date, and extract the splice data between the start and end date. The image is not included.





2.4.5 Save Single Data

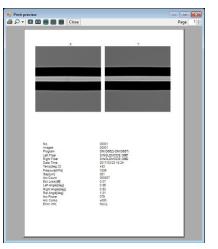
This function saved splice data displayed currently in CSV format and PNG

format or Excel file.

Save File				×
$\leftrightarrow \rightarrow \neg \uparrow \blacksquare$ This PC \rightarrow Deskt	top	v ð Se	arch Desktop	,P
Organize • New folder			0.0	- 0
OneDrive Name	^	Date m	odified Type	
This PC JD Objects JD Objects Destop Objectnes Downeeds Downleads Mucic Petures Petures Wroses	No it	ens match your sear	ch.	
> Local Disk (Ci)				1
		(B)		
File game: SpliceHistory_SN000	000_202003131346_0000			~

2.4.6 Print

The menu to select Preview and Print is displayed by clicking [Print].



2.5 Arc Check History

The arc check history data stored in the fusion splicer can be displayed, saved, and print.

<u></u>	🌲 😽	Arc Che	ck History	Ô		*
	Date	After Arc C	heck		Before Arc Check	
0001	2017/09/11 19:29	X				Y
0002	2017/09/11 19:28	~				
0003	2017/09/11 19:27					
0004	2017/09/11 19:25					
0005	2017/09/11 19:24					
0006	2017/09/11 19:23					
0007	2017/09/11 19:22				>)(=	
8000	2017/09/11 19:21					
0009	2017/09/11 19:19					
0010	2017/09/11 19:18					
0011	2017/09/11 19:17					
		Arc Check No.		ims	Data	Unit
		0001	1 No.		0001	
		0001	2 Before I		0001	
			3 After Im		0002	
			4 Program		SM-SM	
			5 Date Tir	ne	2017/09/11 19:29	
			6 Temp		+40	de g.C
		Save Batch Data	7 Pressure		1009	
		Save Batch Data	8 Arc Cou		000014	
			9 Arc Pow		184	
		Save Single Data	10 Arc Con	np.	-001	
			11 Retreat		064	μm
					253	
			12 Center I			
		Print	12 Center I 13 Opt. Pov		183	İ

2.5.1 History List

List of arc check history is displayed in the left side of the screen. Clicking the date and time, its detailed information is displayed on the right side of the screen.

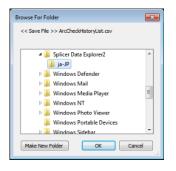
2.5.2 Arc Check Data

The images after arc check and before arc check are displayed in the top right of the screen. The detailed information is displayed in the bottom right of the screen.

2.5.3 Save Batch Data

This function outputs the specified range of the arc check history data in CSV format. The range is set by the date, and extract the arc check data between the start and end date. The image is not included.

tting	
5 /30/2018	
5/30/2018	
	ок
	1 /30/2018



2.5.4 Save Single Data

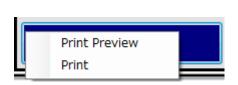
This function saves arc check data displayed currently in CSV format and

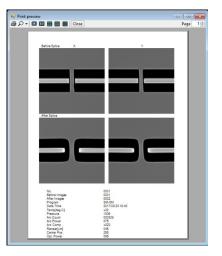
PNG format or Excel file.

Save File				×
← → × ↑ 📕 > This PC > Desktop	~ ð	Search Deskto	p	P
Organize - New folder			10. •	0
OneDrive Name		Date modified	Type	
> 🗊 This PC No	items match ye	our search.		
> Desktop				
> 🗄 Documents				
> 🕹 Downloads				
> 🎝 Music				
> E Pictures				
> 📕 Videos				
> 📓 Videos > 🕍 Local Disk (Ci) 🗸 K				
	001.csv			

2.5.5 Print

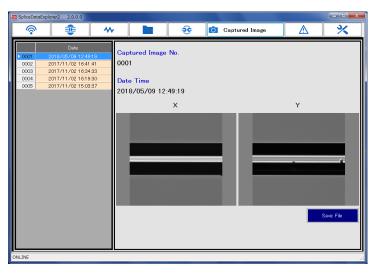
The menu to select Preview and Print is displayed by clicking [Print]





2.6 Captured Images

The captured images stored in the fusion splicer can be displayed and saved.



2.6.1 Image List

Image list is displayed in the left side of the screen. Clicking the date and time, its image is displayed on the right side of the screen.

2.6.2 Save File

This function saves image displayed currently in PNG format.



2.7 Failure Data history

The failure history data stored in the fusion splicer can be displayed, saved, and print.

<u></u>	•)	F 🔬 🖸	ailure History	<u>*</u>
	Date	A Before Spli	ice	After Splice	
0001	2018/04/10 13:28	X			V
0002	2018/03/27 12:45				- 14
0003	2017/11/02 15:16				
0004	2017/11/02 15:15				
0005	2017/10/26 17:55				
0006	2017/10/26 17:55				
0007	2017/10/26 15:01				
0008	2017/10/26 15:01				
0009	2017/10/26 14:51				
0010	2017/10/26 14:31				
0011	2017/10/26 14:31				
	2017/10/26 14:31 2017/10/23 11:37				
0011		Failure History No.	Items	Data	Unit
0011 0012	2017/10/23 11:37	Failure History No.	1 No.	0019	Unit
0011 0012 0013	2017/10/23 11:37 2017/10/23 11:03	Failure History No. 0019	1 No. 2 Before Images	0019 0037	Unit
0011 0012 0013 0014	2017/10/23 11:37 2017/10/23 11:03 2017/10/23 11:03		1 No. 2 Before Images 3 After Images	0019 0037 0038	Unit
0011 0012 0013 0014 0015	2017/10/23 11 37 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 1056		1 No. 2 Before Images 3 After Images 4 Program	0019 0037	Unit
0011 0012 0013 0014 0015 0016	2017/10/23 11 37 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 10 56 2017/10/23 10 55		1 No. 2 Before Images 3 After Images 4 Program 5 Left Fiber	0019 0037 0038	Unit
0011 0012 0013 0014 0015 0016 0017	2017/10/23 11 37 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 1056 2017/10/23 1055 2017/10/23 1052		1 No. 2 Before Images 3 After Images 4 Program 5 Left Fiber 6 Right Fiber	0019 0037 0038 SM-SM Single Mode G652 Single Mode G652	Unit
0011 0012 0013 0014 0015 0016 0017 0018	2017/10/23 11 37 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 1056 2017/10/23 1055 2017/10/23 1055 2017/10/23 1051	0019	1 No. 2 Before Images 3 After Images 4 Program 5 Left Fiber 6 Right Fiber 7 Date Time	0019 0037 0038 SM-SM SingleMode G652 SingleMode G652 2017/10/23 10.13	
0011 0012 0013 0014 0015 0016 0017 0018 0019	2017/10/23 11:37 2017/10/23 11:03 2017/10/23 11:03 2017/10/23 10:56 2017/10/23 10:55 2017/10/23 10:55 2017/10/23 10:51 2017/10/23 10:13		1 No. 2 Before Images 3 After Images 4 Program 5 Left Fiber 6 Right Fiber 7 Dote Time 8 Temp	0019 0037 0038 SIM-SM Single Mode G652 Single Mode G652 2017/10/23 1013 423	degC
0011 0012 0013 0014 0015 0016 0017 0018 0018 0019 0020	2017/10/23 11.37 2017/10/23 11.03 2017/10/23 11.03 2017/10/23 11.05 2017/10/23 1055 2017/10/23 1055 2017/10/23 1051 2017/10/23 1013 2017/10/23 1013	0019	1 No. 2 Before Images 3 After Images 4 Program 5 Left Fiber 6 Right Fiber 7 Date Time	0019 0037 0038 SImgleMode G652 SingleMode G652 2017/10/23 1013 +23 980	
0011 0012 0013 0014 0015 0016 0017 0018 0019 0020 0021	2017/10/23 11 37 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 1056 2017/10/23 1055 2017/10/23 1055 2017/10/23 1051 2017/10/23 1013 2017/10/23 1013 2017/10/02 1035	0019	1 No. 2 Before Images 3 After Images 4 Program 5 Left Fiber 6 Right Fiber 7 Dote Time 8 Temp	0019 0037 0038 SIM-SM Single Mode G652 Single Mode G652 2017/10/23 1013 423	degC
0011 0012 0013 0014 0015 0016 0017 0018 0020 0020 0021 0022	2017/10/23 11 33 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 10 56 2017/10/23 10 55 2017/10/23 10 55 2017/10/23 10 51 2017/10/23 10 51 2017/10/23 10 51 2017/10/21 03 55 2017/06/11 19 20	0019 Save Blatch Data	1 No. 2 Before Images 3 After Images 4 Program 5 Left Fiber 6 Right Fiber 7 Date Time 8 Temp 9 Pressure	0019 0037 0038 SingleMode G652 2017/10/21013 2017/10/21013 980 000025 SPLICING_DEFEOTS(S)	degC
0011 0012 0013 0014 0015 0016 0017 0018 0020 0020 0021 0022 0023	2017/10/23 11 37 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 1056 2017/10/23 1055 2017/10/23 1055 2017/10/23 1051 2017/10/23 1051 2017/10/23 1051 2017/10/23 1051 2017/10/21 1052 2017/10/21 1052 2017/10/20 10 455	0019 Save Blatch Data	1 No. 2 Before Images 3 After Images 4 Program 5 Left Fiber 7 Date Time 8 Temp 9 Pressure 10 Arc Count	0019 0037 SIngle Mode G652 Single Mode G652 2017/10/23 1013 +23 980 000002	degC
0011 0012 0013 0014 0015 0016 0017 0018 0019 0020 0021 0022 0023 0024	2017/10/23 11 37 2017/10/23 11 03 2017/10/23 11 03 2017/10/23 1056 2017/10/23 1055 2017/10/23 1055 2017/10/23 1051 2017/10/23 1051 2017/10/20 1055 2017/20/20 1055 2017/20/11 1920 2017/20/10 1645	0019 Save Blatch Data	1 No. 2 Before Images 3 After Images 4 Program 5 Loft Fiber 6 Right Fiber 7 Date Time 8 Temp 9 Pressure 10 Arc Count 11 Error Code	0019 0037 0038 SingleMode G652 2017/10/21013 2017/10/21013 980 000025 SPLICING_DEFEOTS(S)	degC

2.7.1 History List

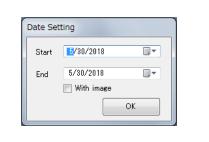
List of failure history is displayed in the left side of the screen. Clicking the date and time, its detailed information is displayed on the right side of the screen.

2.7.2 Failure Data

The images before and after splicing are displayed in the top right of the screen. The detailed information is displayed in the bottom right of the screen.

2.7.3 Save Batch Data

This function outputs the specified range of the failure history data in CSV format. The range is set by the date, and extract the splice data between the start and end date. The image is not included.





2.7.4 Save Single Data

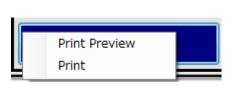
This function saved splice data displayed currently in CSV format and PNG

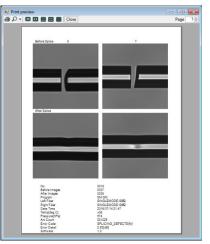
format.



2.7.5 Print

The menu to select Preview and Print is displayed by clicking [Print].





2.8 Software Update

This function updates the software of fusion splicer from internet or specified file.

🛜 🤹 🚧 🖿 🤤 🙆 📐 💥 Firmware L	Update
Splicer Information New Firmware Model Name S179 Firmware Version 12.47 Browso Cownload Status Update	
Update	
ONLINE	

2.8.1 Update

Click [Download] if updating from the internet, click [Browse] if updating from the file.

When the latest software is found, [Update] button is enabled. Click [Update] to start updating.

The fusion splicer restarts automatically after update is complete, and new software is applied. (Turn the power manually if the fusion splicer does not restart.)

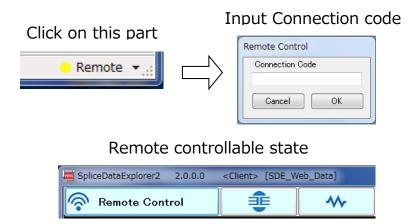
2.9 Remote Maintenance

This application can be used to remotely maintain optical fiber fusion splicer.



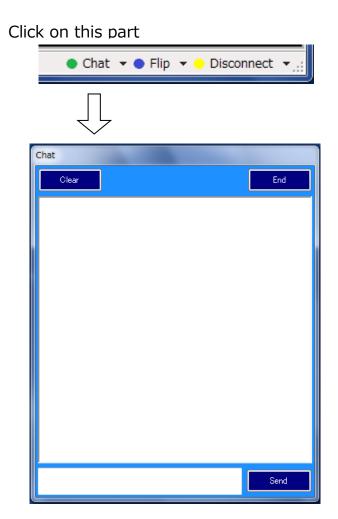
2.9.1 Connection Method

Click [Remote] with the fusion splicer connected. Enter the Connection Code received in advance in the dialog. The menu button changing to light blue means the remote control becomes possible.



2.9.2 Chat

In remote control mode, the [O Chat] button on the lower right of the screen is displayed. The chat screen is displayed by clicking [O Chat] button. (The chat screen is not displayed if chat partner is not connected). Click [Send] button or press Enter key to send a message to the chart partner, and your message will be displayed on the right of the screen, and a message from the partner is displayed on the left side. The chat screen is closed by clicking "End" button, and the chat partner's screen is also closed at the same time.



For sales and service information, Contact FURUKAWA ELECTRIC CO., LTD. Or your local representative.

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