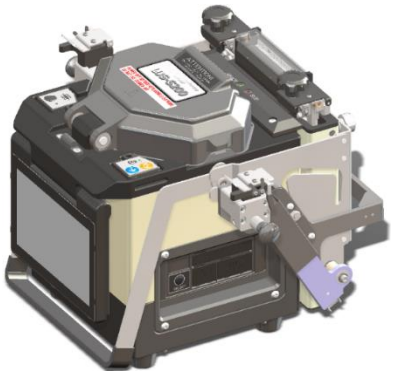
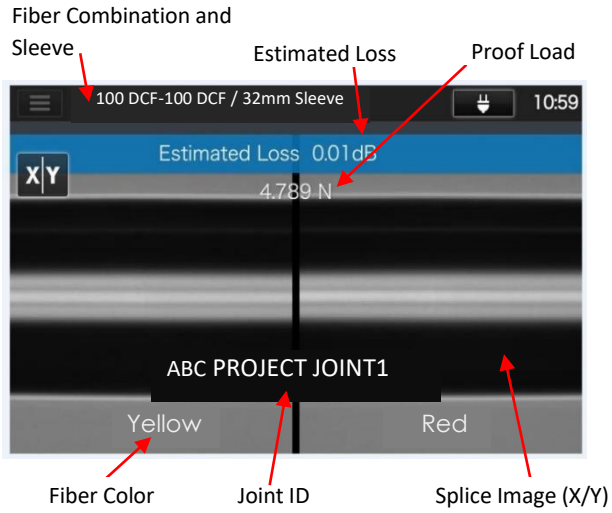
Technical Insight – New Fiber Fusion Splicer UJS-S200

The new UJ Consortium fiber fusion splicer 'UJS-S200' for UJ/UC has been launched. The UJS-S200 fusion splicing machine method of operation is similar to that of the former fusion splicer 'UJS-S100R'. The various fiber splicing combinations that were qualified with the previous machine remain qualified with the same splicing parameters when using the new machine and the reliability of 25 years for the spliced portion remains unchanged. However, the fiber fusion splicer 'UJS-S200' provides significant advantages over the earlier 'UJS-S100R' machine:



- Thanks to an increase of memory size, all current splicing parameters, now approximately 370, can be stored in the splicer memory, so that the appropriate fiber splicing parameters can be selected and used with no need for input.
- The fiber fusion splicer 'UJS-S200' can store digital images of fiber splices, which can be downloaded and added to repair completion reports and joint records.
- The Fiber Fusion Splicer UJS-S200 is supplied in two transit cases, one for the splicing unit and one for the tools and accessories. The cases are linked together with transit straps for shipping and storage. When returning the splicing machine for service, only the splicing unit transit case needs to be shipped.



As shown in this screen shot, certain fiber splice information such as the joint identification number and fiber color can be manually entered to the splice image by keying them in using the on-screen QWERTY keyboard on the splicing machine's touch screen.

The following table shows a comparison of the storage capabilities of the former UJS-S100R and the new UJS-S200 fusion splicing machines:

SPECIFICATION		UJS-S100R	UJS-S200
Splice Parameters	Storable Splice Combinations	48	**600**
	Storable Fiber Data	80	**160**
Splice Results	Storable Visual Images	N/A	**200**
	Storable Text Data	750	**10,000**
	Output Method	NTSC (analog)	**SD Card (jpeg)**

UJ Consortium Members are:

Alcatel Submarine Networks (ASN); Global Marine;
Kokusai Cable Ship Co Ltd (KCS); Tyco Electronics Subsea Communications (TE SubCom)