



The OFDA MFX is an online multiple fibre measurement system. Using ultra high speed patented cameras to measure diameter and faults such as slubs, thick and thin places. No moving parts and solid state components ensure high reliability and stability in measurements. The compact industrial design allows the system to be easily installed with minimal intrusion to any operation. Employing Microsoft Windows operating system and Ethernet connection, the data is easily accessible. The OFDA MFX system is the perfect addition to monitor outputs to produce premium products.

Specification

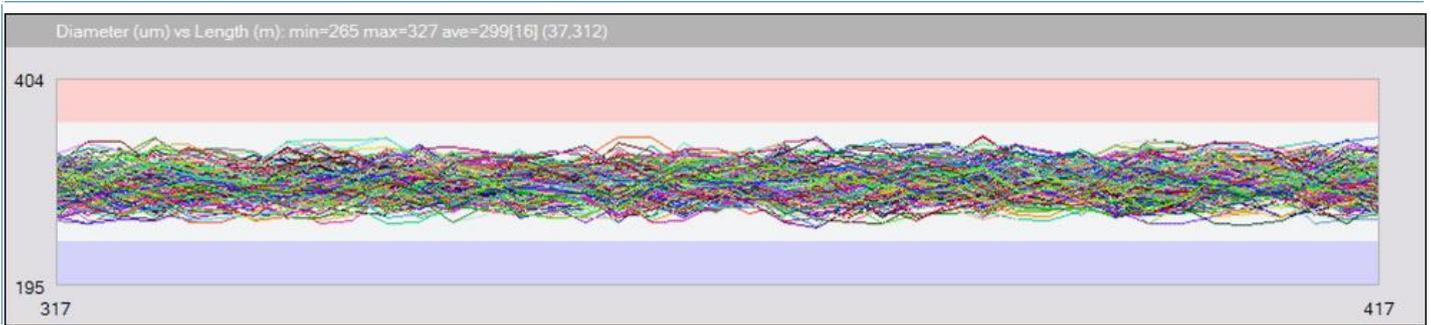
Technology	Charged coupled device (CCD) and light emitting devices (LED)
Diameter range	0.005 to 1.5 mm
Sample rate per fibre	14000
Accuracy	± 0.002 mm
Number of simultaneous fibre	400
Fault detection	Slubs (as short as 1 mm), necks, Standard deviation, thick and thin places
Outputs	4 (customisable for different defects)
Dimensions	120 x 490 x 1300 mm (depending on length required)



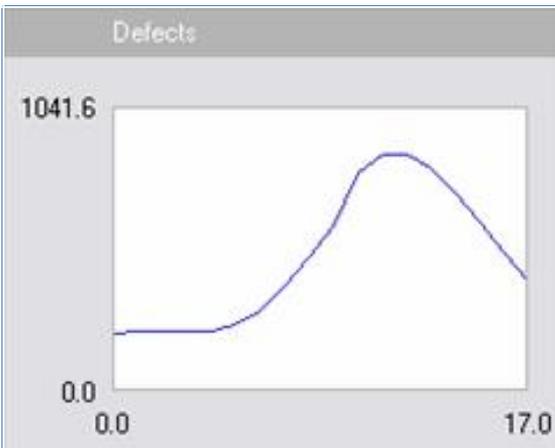
Features

- Non contact measurement makes non destructive measurements and easy material handling
- No moving parts to ensure high reliability
- Ultra high speed to detect short defects
- Customised software facility
- 100% monitoring ensures quality products
- The most cost effective system on the market
- Compact design allows fast integration into production lines
- Excellent resistance to dust and dirt particles
- Multiple digital outputs for multiple defect alarms
- Labels print out for spool identification and defect print out for quality control

Production Visualisation



Monitor hundreds of fibres at the same time from a convenient diameter graph.



Ultra high speed cameras captures defects as short as 1 mm to produce premium products with confidence.

Mean	SD	Min	Max	Thin	Thick	Defect thin	Defect thick (µm)	Fibres detected	CF	Sample rate
336.6	3.8	60.2 (148)	798.0 (69)	54.54	43.43	0	0 (0/7)	235	1.00	13876
1.774 (5.8) 0 0	39.308 (3.1) 0 0	71.113 (2.7) 0 0	108.402 (3.2) 0 0	141.114 (2.7) 0 0	181.130 (3.2) 0 0	211.298 (3.2) 0 0	242.385 (3.2) 0 0	273.455 (3.4) 0 0	304.511 (3.4) 0 0	335.567 (3.4) 0 0
2.56 (2.9) 2 0	37.773 (5.2) 0 0	72.402 (4.1) 0 0	107.793 (4.6) 0 2	142.393 (3.9) 0 0	183.262 (3.8) 0 0	214.114 (2.6) 0 0	245.001 (3.8) 0 0	275.882 (2.6) 0 0	306.775 (5.2) 0 0	337.667 (3.4) 0 0
3.116 (3.3) 0 0	36.869 (2.9) 2 0	73.708 (5.7) 0 2	108.777 (2.3) 0 0	143.775 (5.6) 0 0	184.70 (2.2) 0 0	215.401 (3.5) 0 0	246.292 (2.6) 0 0	277.183 (2.6) 0 0	308.074 (3.4) 0 0	338.965 (3.4) 0 0
4.397 (3.6) 0 0	38.114 (2.6) 0 0	74.65 (2.4) 2 0	109.117 (2.7) 0 0	144.70 (2.2) 0 0	185.117 (2.5) 0 0	216.110 (3.1) 0 0	247.001 (3.1) 0 0	278.001 (3.1) 0 0	309.001 (3.1) 0 0	340.001 (3.1) 0 0
5.770 (5.1) 0 0	40.394 (3.8) 0 0	75.116 (2.0) 0 0	110.406 (3.9) 0 0	145.117 (2.5) 0 0	186.117 (2.5) 0 0	217.110 (3.1) 0 0	248.001 (3.1) 0 0	279.001 (3.1) 0 0	310.001 (3.1) 0 0	341.001 (3.1) 0 0
6.66 (3.6) 2 0	41.771 (5.2) 0 0	75.396 (3.5) 0 0	111.796 (4.7) 0 2	146.401 (4.4) 0 0	187.401 (4.4) 0 0	218.401 (4.4) 0 0	249.401 (4.4) 0 0	280.401 (4.4) 0 0	311.401 (4.4) 0 0	342.401 (4.4) 0 0
7.116 (2.4) 0 0	42.64 (3.2) 2 0	77.791 (3.2) 0 2	112.69 (2.2) 2 0	147.796 (3.2) 0 2	188.796 (3.2) 0 2	219.796 (3.2) 0 2	250.796 (3.2) 0 2	281.796 (3.2) 0 2	312.796 (3.2) 0 2	343.796 (3.2) 0 2
3.404 (3.7) 0 0	43.119 (2.7) 0 0	78.63 (2.9) 2 0	113.114 (2.4) 0 0	148.66 (2.9) 2 0	189.66 (2.9) 2 0	220.66 (2.9) 2 0	251.66 (2.9) 2 0	282.66 (2.9) 2 0	313.66 (2.9) 2 0	344.66 (2.9) 2 0
5.703 (5.4) 0 2	44.303 (3.6) 0 0	79.112 (2.6) 0 0	114.409 (3.3) 0 0	149.120 (3.4) 0 0	190.120 (3.4) 0 0	221.120 (3.4) 0 0	252.120 (3.4) 0 0	283.120 (3.4) 0 0	314.120 (3.4) 0 0	345.120 (3.4) 0 0
10.66 (2.6) 2 0	45.767 (7.1) 0 0	80.404 (4.0) 0 0	115.792 (4.6) 0 2	150.405 (4.0) 0 0	191.405 (4.0) 0 0	222.405 (4.0) 0 0	253.405 (4.0) 0 0	284.405 (4.0) 0 0	315.405 (4.0) 0 0	346.405 (4.0) 0 0
11.119 (2.6) 0 0	46.63 (2.6) 2 0	81.787 (6.5) 0 2	116.68 (3.3) 2 0	151.68 (2.5) 2 0	192.68 (2.5) 2 0	223.68 (2.5) 2 0	254.68 (2.5) 2 0	285.68 (2.5) 2 0	316.68 (2.5) 2 0	347.68 (2.5) 2 0
12.402 (3.6) 0 0	47.116 (3.0) 0 0	82.64 (2.6) 2 0	117.117 (2.5) 0 0	152.118 (2.4) 0 0	193.118 (2.4) 0 0	224.118 (2.4) 0 0	255.118 (2.4) 0 0	286.118 (2.4) 0 0	317.118 (2.4) 0 0	348.118 (2.4) 0 0
13.796 (4.6) 2 0	48.299 (4.2) 0 0	83.119 (3.0) 0 0	118.405 (3.4) 0 0	153.404 (4.1) 0 0	194.404 (4.1) 0 0	225.404 (4.1) 0 0	256.404 (4.1) 0 0	287.404 (4.1) 0 0	318.404 (4.1) 0 0	349.404 (4.1) 0 0
14.67 (2.6) 2 0	49.037 (3.9) 2 0	84.399 (4.2) 0 0	119.790 (3.3) 0 2	154.793 (3.3) 0 2	195.793 (3.3) 0 2	226.793 (3.3) 0 2	257.793 (3.3) 0 2	288.793 (3.3) 0 2	319.793 (3.3) 0 2	350.793 (3.3) 0 2
15.112 (2.7) 0 0	49.70 (3.8) 2 0	85.794 (3.6) 0 2	120.68 (3.6) 0 2	155.68 (2.5) 2 0	196.68 (2.5) 2 0	227.68 (2.5) 2 0	258.68 (2.5) 2 0	289.68 (2.5) 2 0	320.68 (2.5) 2 0	351.68 (2.5) 2 0
16.396 (3.2) 0 0	51.113 (3.5) 0 0	86.43 (2.6) 0 0	121.116 (3.4) 0 0	156.114 (2.3) 0 0	197.114 (2.3) 0 0	228.114 (2.3) 0 0	259.114 (2.3) 0 0	290.114 (2.3) 0 0	321.114 (2.3) 0 0	352.114 (2.3) 0 0
17.296 (4.6) 0 0	52.399 (3.6) 0 0	87.119 (5.1) 0 0	122.404 (3.5) 0 0	157.405 (3.6) 0 0	198.405 (3.6) 0 0	229.405 (3.6) 0 0	260.405 (3.6) 0 0	291.405 (3.6) 0 0	322.405 (3.6) 0 0	353.405 (3.6) 0 0
18.71 (2.6) 0 0	53.777 (5.1) 0 0	88.404 (4.5) 0 0	123.792 (5.2) 0 2	158.794 (5.2) 0 2	199.794 (5.2) 0 2	230.794 (5.2) 0 2	261.794 (5.2) 0 2	292.794 (5.2) 0 2	323.794 (5.2) 0 2	354.794 (5.2) 0 2
19.114 (2.2) 0 0	54.61 (3.4) 2 0	89.781 (3.7) 0 2	124.66 (2.3) 2 0	159.65 (2.3) 2 0	200.65 (2.3) 2 0	231.65 (2.3) 2 0	262.65 (2.3) 2 0	293.65 (2.3) 2 0	324.65 (2.3) 2 0	355.65 (2.3) 2 0
20.298 (3.5) 0 0	55.196 (5.7) 0 0	90.96 (2.4) 2 0	125.116 (3.1) 0 0	160.117 (2.7) 0 0	201.117 (2.7) 0 0	232.117 (2.7) 0 0	263.117 (2.7) 0 0	294.117 (2.7) 0 0	325.117 (2.7) 0 0	356.117 (2.7) 0 0
21.294 (4.5) 0 2 0	55.399 (3.2) 0 0	91.112 (2.9) 0 0	126.411 (3.9) 0 0	161.403 (3.9) 0 0	202.403 (3.9) 0 0	233.403 (3.9) 0 0	264.403 (3.9) 0 0	295.403 (3.9) 0 0	326.403 (3.9) 0 0	357.403 (3.9) 0 0
22.67 (2.4) 2 0	57.796 (5.5) 0 2	92.400 (5.3) 0 0	127.796 (5.3) 0 2	162.794 (6.8) 0 2	203.794 (6.8) 0 2	234.794 (6.8) 0 2	265.794 (6.8) 0 2	296.794 (6.8) 0 2	327.794 (6.8) 0 2	358.794 (6.8) 0 2
23.114 (2.6) 0 0	58.69 (3.2) 2 0	93.68 (2.7) 0 0	128.66 (2.5) 2 0	163.66 (2.7) 2 0	204.66 (2.7) 2 0	235.66 (2.7) 2 0	266.66 (2.7) 2 0	297.66 (2.7) 2 0	328.66 (2.7) 2 0	359.66 (2.7) 2 0
24.398 (3.0) 0 0	59.114 (2.5) 0 0	94.122 (3.1) 0 0	129.112 (2.8) 0 0	164.117 (4.0) 0 0	205.117 (4.0) 0 0	236.117 (4.0) 0 0	267.117 (4.0) 0 0	298.117 (4.0) 0 0	329.117 (4.0) 0 0	360.117 (4.0) 0 0
25.777 (4.6) 0 0	60.409 (3.4) 0 0	95.402 (3.5) 0 0	130.397 (4.1) 0 0	165.403 (4.1) 0 0	206.403 (4.1) 0 0	237.403 (4.1) 0 0	268.403 (4.1) 0 0	299.403 (4.1) 0 0	330.403 (4.1) 0 0	361.403 (4.1) 0 0
26.63 (2.4) 2 0	61.793 (5.3) 0 2	96.798 (3.2) 0 2	131.793 (7.4) 0 2	166.793 (5.9) 0 2	207.793 (5.9) 0 2	238.793 (5.9) 0 2	269.793 (5.9) 0 2	300.793 (5.9) 0 2	331.793 (5.9) 0 2	362.793 (5.9) 0 2
27.118 (3.6) 0 0	63.64 (2.9) 2 0	97.63 (2.7) 2 0	132.62 (3.6) 2 0	167.62 (3.6) 2 0	208.62 (3.6) 2 0	239.62 (3.6) 2 0	270.62 (3.6) 2 0	301.62 (3.6) 2 0	332.62 (3.6) 2 0	363.62 (3.6) 2 0
28.400 (3.5) 0 0	63.129 (5.1) 0 0	98.116 (2.5) 0 0	133.120 (3.1) 0 0	168.115 (3.1) 0 0	209.115 (3.1) 0 0	240.115 (3.1) 0 0	271.115 (3.1) 0 0	302.115 (3.1) 0 0	333.115 (3.1) 0 0	364.115 (3.1) 0 0
29.791 (5.3) 0 0	64.405 (3.2) 0 0	99.403 (3.8) 0 0	134.403 (5.0) 0 0	169.401 (4.2) 0 0	210.401 (4.2) 0 0	241.401 (4.2) 0 0	272.401 (4.2) 0 0	303.401 (4.2) 0 0	334.401 (4.2) 0 0	365.401 (4.2) 0 0
30.66 (3.4) 2 0	65.791 (5.0) 0 2	100.793 (5.6) 0 2	135.787 (5.6) 0 2	170.787 (5.6) 0 2	211.787 (5.6) 0 2	242.787 (5.6) 0 2	273.787 (5.6) 0 2	304.787 (5.6) 0 2	335.787 (5.6) 0 2	366.787 (5.6) 0 2
31.117 (3.6) 0 0	66.71 (2.5) 0 0	101.66 (2.5) 2 0	136.66 (3.6) 2 0	171.66 (3.6) 2 0	212.66 (3.6) 2 0	243.66 (3.6) 2 0	274.66 (3.6) 2 0	305.66 (3.6) 2 0	336.66 (3.6) 2 0	367.66 (3.6) 2 0
32.399 (3.5) 0 0	67.126 (2.3) 0 0	102.414 (4.2) 0 0	137.197 (4.2) 0 0	172.117 (3.0) 0 0	213.117 (3.0) 0 0	244.117 (3.0) 0 0	275.117 (3.0) 0 0	306.117 (3.0) 0 0	337.117 (3.0) 0 0	368.117 (3.0) 0 0
33.791 (3.2) 0 2	68.413 (3.6) 0 0	103.795 (3.4) 0 2	138.397 (3.2) 0 0	173.401 (4.5) 0 0	214.401 (4.5) 0 0	245.401 (4.5) 0 0	276.401 (4.5) 0 0	307.401 (4.5) 0 0	338.401 (4.5) 0 0	369.401 (4.5) 0 0
34.67 (2.4) 2 0	69.799 (3.8) 0 2	104.64 (2.3) 2 0	139.782 (3.1) 0 2	174.782 (3.1) 0 2	215.782 (3.1) 0 2	246.782 (3.1) 0 2	277.782 (3.1) 0 2	308.782 (3.1) 0 2	339.782 (3.1) 0 2	370.782 (3.1) 0 2
35.136 (2.6) 0 0	70.66 (2.4) 2 0	105.116 (2.6) 0 0	140.70 (2.7) 0 0	175.63 (2.0) 2 0	216.63 (2.0) 2 0	247.63 (2.0) 2 0	278.63 (2.0) 2 0	309.63 (2.0) 2 0	340.63 (2.0) 2 0	371.63 (2.0) 2 0

Global data accessible on a single screen with coloured highlights of fibres requiring attention.

Company Profile

BSC Electronics has been designing and manufacturing fibre testing equipment for almost two decades. A world leader with a unique range of fibre measurement instruments, based on the latest digital video technology. With machines used in more than 30 countries around the world. OFDA stands for "Optical-based Fibre Diameter Analyser".

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