

● MW0944B High-Resolution Unit

Wavelength ¹⁰	1310/1550 ±15 nm				
Fiber under measurement	10/125 μm single-mode fiber: TITU-T (formerly CCITT) G.652				
Optical connector ¹¹	FC-PC/DIAMOND-PC/ST-PC/DIN-PC/SC-PC				
Pulse width	10 ns		20 ns		500 ns
Dynamic range (one-way back-scattered light level) ^{11, 11}	Effective	6.6/4.0 dB	6.0/5.5 dB	11.5/9.0 dB	15.0/12.5 dB
	SNR=1	9.5/7.0 dB	11.0/8.5 dB	14.5/12.0 dB	18.0/15.5 dB
Dynamic range (4% Fresnel reflection) ¹¹	Effective	34.5/33.0 dB			
	SNR=1	37.5/35.0 dB			
Near-end dead zone (back-scattered light) ^{12, 13}	Fresnel reflection	3 m	5 m	13 m	65 m
	Back-scattered light	8 m	10 m	20 m	65 m
Spatial resolution ^{12, 14}	Fresnel reflection	2 m	4 m	13 m	220 m
	Back-scattered light	2 m	4 m	15 m	220 m
Mask function ^{12, 15}	No. of masks	5 max. (optical)			
	Mask width	13 m	13 m	18 m	65 m
Variable near-end mask width function	Provided				
Variable optical output power function ¹⁵					
Distance range (km) ¹²	10, 25, 50, 100				
Horizontal axis ¹⁷	Scale (m/div)	2.5, 5, 10, 25, 50, 100, 250, 500, 1 km (10 km range)			
		2.5, 5, 10, 25, 50, 100, 250, 500, 1 km, 2.5 km (25 km range)			
		2.5, 5, 10, 25, 50, 100, 250, 500, 1 km, 2.5 km, 5 km (50 km range)			
		2.5, 5, 10, 25, 50, 100, 250, 500, 1 km, 2.5 km, 5 km, 10 km (100 km range)			
Vertical axis	Resolution	Sampling resolution: 5 cm to 20 m Read-out resolution: 5 cm to 200 m			
	Accuracy	±1 m ± measured value (m) × 2 × 10 ⁻⁵ (does not include uncertainty in fiber index of refraction)			
Ambient temperature	Scale (dB/div)	0.1, 0.25, 0.5, 1, 2.5, 5			
	Read-out resolution	0.001 dB			
	Linearity	±0.05 dB/div			
Mass	<2.5 kg				